

Supplemental Figure 12: Differences in morphological profiles between TT (n=7) and CC (n=6) allele carriers at day 14 in subcutaneous AMSCs. Results of multi-way ANOVA with significance level 5% FDR. AP features, Adipocyte Profiler feature name; pvalue, q-value, t-statistics of comparison.

AP features	pvalue	q-value	effect size (eta_sq)	t-test
Cells_AreaShape_FormFactor	0.0389	0.0395	0.3000	1.9862
Cells_AreaShape_Solidity	0.0136	0.0313	0.4180	2.8491
Cells_AreaShape_Zernike_8_8	0.0170	0.0326	0.3550	2.6712
Cells_Children_LargeBODIPYObjects_Count	0.0186	0.0339	0.4990	2.3018
Cells_Granularity_14_AGP	0.0123	0.0304	0.2630	1.9214
Cells_Granularity_14_BODIPY	0.0042	0.0298	0.5370	1.5891
Cells_Granularity_7_AGP	0.0257	0.0365	0.3810	-2.0191
Cells_Granularity_5_BODIPY	0.0491	0.0425	0.2730	2.1404
Cells_Granularity_8_Mito	0.0213	0.0349	0.1120	-1.1109
Cells_Intensity_LowerQuartileIntensity_Mito	0.0206	0.0348	0.3700	2.1866
Cells_Intensity_MADIntensity_AGP	0.0017	0.0298	0.0580	-1.1573
Cells_Intensity_MassDisplacement_AGP	0.0209	0.0349	0.2720	-1.7026
Cells_Intensity_MassDisplacement_BODIPY	0.0028	0.0298	0.3480	-2.5211
Cells_Intensity_MassDisplacement_Mito	0.0297	0.0374	0.2040	-1.3490
Cells_Intensity_MaxIntensity_AGP	0.0242	0.0365	0.0680	-1.1854
Cells_Intensity_MeanIntensityEdge_Mito	0.0454	0.0412	0.3330	2.0549
Cells_Intensity_MedianIntensity_Mito	0.0395	0.0396	0.3120	2.0166
Cells_Intensity_MinIntensity_Mito	0.0259	0.0365	0.4250	2.7873
Cells_Intensity_MinIntensityEdge_Mito	0.0264	0.0366	0.4220	2.7584
Cells_Intensity_StdIntensity_AGP	0.0128	0.0304	0.0960	-1.3545
Cells_Mean_LargeBODIPYObjects_AreaShape_Orientation	0.0020	0.0298	0.2580	1.7141
Cells_Mean_LargeBODIPYObjects_Correlation_Overlap_BODIPY_AGP	0.0277	0.0374	0.2690	2.3174
Cells_Mean_LargeBODIPYObjects_Granularity_5_BODIPY	0.0482	0.0423	0.4710	2.5675
Cells_Neighbors_AngleBetweenNeighbors_10	0.0296	0.0374	0.3170	2.2575
Cells_Neighbors_AngleBetweenNeighbors_Adjacent	0.0296	0.0374	0.3170	2.2575
Cells_RadialDistribution_MeanFrac_AGP_1of4	0.0118	0.0304	0.5930	-3.7736
Cells_RadialDistribution_MeanFrac_Mito_3of4	0.0326	0.0375	0.3170	-1.9113
Cells_RadialDistribution_RadialCV_BODIPY_3of4	0.0070	0.0298	0.2500	-2.1039
Cells_RadialDistribution_RadialCV_Mito_1of4	0.0474	0.0418	0.2080	1.7808
Cells_Texture_AngularSecondMoment_AGP_20_03	0.0360	0.0384	0.0460	0.9478
Cells_Texture_AngularSecondMoment_Mito_20_03	0.0362	0.0384	0.2800	-1.8302
Cells_Texture_Contrast_AGP_20_01	0.0146	0.0313	0.0940	-1.3760

Cells_Texture_Correlation_AGP_20_03	0.0289	0.0374	0.4880	-2.2589
Cells_Texture_Correlation_Mito_20_00	0.0141	0.0313	0.2810	-1.9104
Cells_Texture_DifferenceEntropy_AGP_20_01	0.0170	0.0326	0.0730	-1.1987
Cells_Texture_DifferenceVariance_AGP_20_01	0.0157	0.0321	0.0670	1.1178
Cells_Texture_Entropy_AGP_20_03	0.0022	0.0298	0.0680	-1.1877
Cells_Texture_InverseDifferenceMoment_AGP_5_00	0.0099	0.0298	0.0370	0.9324
Cells_Texture_SumEntropy_AGP_20_00	0.0014	0.0298	0.1060	-1.4187
Cells_Texture_SumEntropy_BODIPY_20_03	0.0432	0.0403	0.4170	2.0075
Cells_Texture_SumVariance_AGP_20_00	0.0045	0.0298	0.1530	-1.6931
Cells_Texture_Variance_AGP_20_01	0.0063	0.0298	0.1240	-1.5378
Cytoplasm_AreaShape_FormFactor	0.0330	0.0375	0.2970	2.3550
Cytoplasm_AreaShape_Solidity	0.0249	0.0365	0.3410	2.8358
Cytoplasm_AreaShape_Zernike_8_8	0.0182	0.0336	0.3490	2.6257
Cytoplasm_Granularity_14_AGP	0.0176	0.0332	0.2390	1.8178
Cytoplasm_Granularity_14_BODIPY	0.0060	0.0298	0.5260	1.5386
Cytoplasm_Granularity_7_AGP	0.0286	0.0374	0.3410	-1.7705
Cytoplasm_Granularity_5_BODIPY	0.0245	0.0365	0.3810	2.6321
Cytoplasm_Granularity_8_Mito	0.0183	0.0336	0.0900	-0.9719
Cytoplasm_Intensity_LowerQuartileIntensity_Mito	0.0202	0.0348	0.3820	2.2758
Cytoplasm_Intensity_MADIntensity_AGP	0.0023	0.0298	0.0420	-1.0256
Cytoplasm_Intensity_MassDisplacement_AGP	0.0431	0.0403	0.2490	-1.6158
Cytoplasm_Intensity_MassDisplacement_BODIPY	0.0120	0.0304	0.3150	-2.5346
Cytoplasm_Intensity_MassDisplacement_Mito	0.0190	0.0340	0.2350	-1.5019
Cytoplasm_Intensity_MaxIntensity_AGP	0.0422	0.0403	0.0650	-1.1326
Cytoplasm_Intensity_MaxIntensityEdge_AGP	0.0286	0.0374	0.1000	-1.3495
Cytoplasm_Intensity_MedianIntensity_Mito	0.0347	0.0383	0.3310	2.0946
Cytoplasm_Intensity_MinIntensity_Mito	0.0259	0.0365	0.4250	2.7874
Cytoplasm_Intensity_MinIntensityEdge_Mito	0.0264	0.0366	0.4220	2.7587
Cytoplasm_Intensity_StdIntensity_AGP	0.0195	0.0346	0.0920	-1.3041
Cytoplasm_Intensity_StdIntensityEdge_AGP	0.0129	0.0304	0.1040	-1.4024
Cytoplasm_RadialDistribution_FracAtD_AGP_3of4	0.0152	0.0317	0.3610	2.9312
Cytoplasm_RadialDistribution_FracAtD_BODIPY_1of4	0.0030	0.0298	0.4720	3.3039
Cytoplasm_RadialDistribution_MeanFrac_BODIPY_1of4	0.0023	0.0298	0.4540	3.1744
Cytoplasm_Texture_AngularSecondMoment_AGP_20_03	0.0148	0.0313	0.0380	0.8972
Cytoplasm_Texture_AngularSecondMoment_Mito_20_03	0.0313	0.0374	0.3060	-1.9246

Cytoplasm_Texture_Contrast_AGP_20_01	0.0190	0.0340	0.0910	-1.3224
Cytoplasm_Texture_Correlation_Mito_20_03	0.0321	0.0374	0.3750	-2.1269
Cytoplasm_Texture_DifferenceEntropy_AGP_20_01	0.0255	0.0365	0.0740	-1.1954
Cytoplasm_Texture_DifferenceVariance_AGP_5_02	0.0220	0.0358	0.0700	1.1405
Cytoplasm_Texture_Entropy_AGP_20_01	0.0068	0.0298	0.0580	-1.1054
Cytoplasm_Texture_InverseDifferenceMoment_AGP_5_00	0.0049	0.0298	0.0410	0.9550
Cytoplasm_Texture_InverseDifferenceMoment_Mito_20_03	0.0473	0.0418	0.2710	-1.7694
Cytoplasm_Texture_SumEntropy_AGP_20_03	0.0075	0.0298	0.0900	-1.3071
Cytoplasm_Texture_SumVariance_AGP_20_03	0.0107	0.0298	0.1240	-1.5018
Cytoplasm_Texture_Variance_AGP_20_01	0.0122	0.0304	0.1100	-1.4230