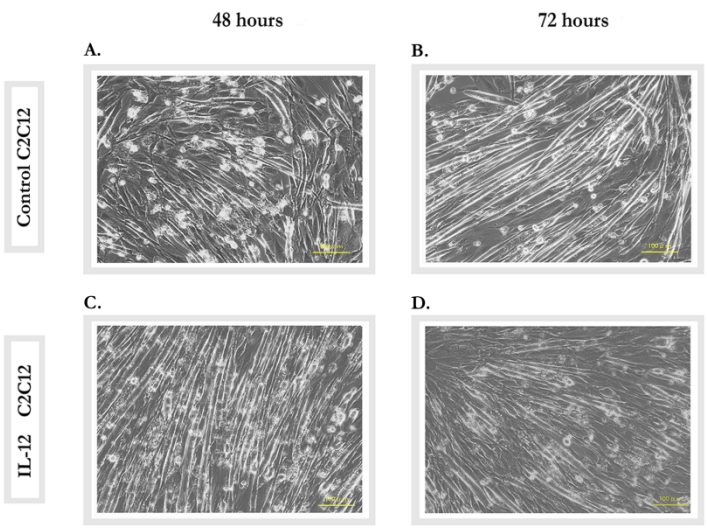
Electronic Supplementary Material (ESI) for Biomaterials Science.

C2C12 feeder vs MEF feeder

Upregulated Genes	Fold Regulation
Ccl11	2.3918
Cxcl1	7.301
Cxcl5	11.7917
Ifn-γ	2.5228
IL-12a	7.9003
IL-18	2.8837
Spp1	4.0061

Downregulated Genes	Fold Regulation
Bmp2	-12.8287
Bmp4	-2.1947
Bmp6	-9.1622
Ccl12	-2.2779
Ccl17	-4.8346
Ccl19	-3.3028
Ccl2	-4.7535
Ccl20	-23.1445
Ccl3	-5.1762
Ccl4	-4.2038
Ccl5	-2.36
Ccl7	-4.2454
Csf1	-5.7805
Csf2	-2.4249
Cxcl10	-4.2134
Cxcl12	-3.3005
Cxcl16	-2.7743
Cxcl3	-2.1966
Gpi1	-3.6311
Il11	-21.7328
Il7	-6.1131
Lif	-4.8538
Mif	-3.4536
Pf4	-2.0285
Ppbp	-20.7322
Tgfb2	-4.471
Tnfrsf11b	-52.542
Tnfsf11	-20.5249
Actb	-3.5303
Gapdh	-2.1323
Gusb	-3.3205
Hsp90ab1	-2.0065

Supp. 1: Screening of cytokine and chemokine expression in C2C12 and MEF cells. C2C12 and MEF feeder layer cells were cultured for 3 days and analyzed using a PCR array for 84 chemokine and cytokine genes. 7 genes were up-regulated in C2C12 compared to MEF feeder cells (left table). The down-regulated genes in the same system are provided in the right table.



Supp. 2: Comparison of the differentiation of IL-12-C2C12 and control C2C12 cells after 48 h and 72 h. After 48 hours of differentiation, control C2C12 cells (A) showed decreased myotube formation compared to IL-12-C2C12 (C). After 72 hours, myotube formation in control (B) and IL-12 overexpressing cells (D) was not significantly different.