

## RNA-seq transcriptome analysis of differentiated human oligodendrocytic MO3.13 cells shows up-regulation of genes involved in myogenesis

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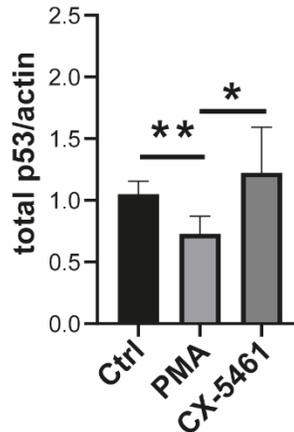
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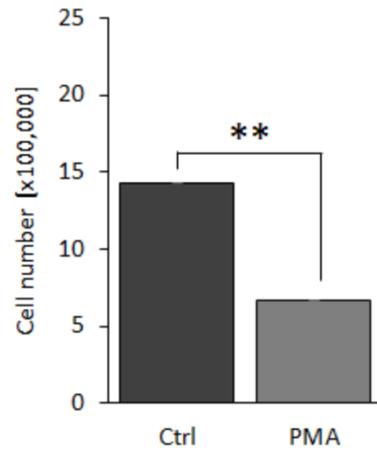
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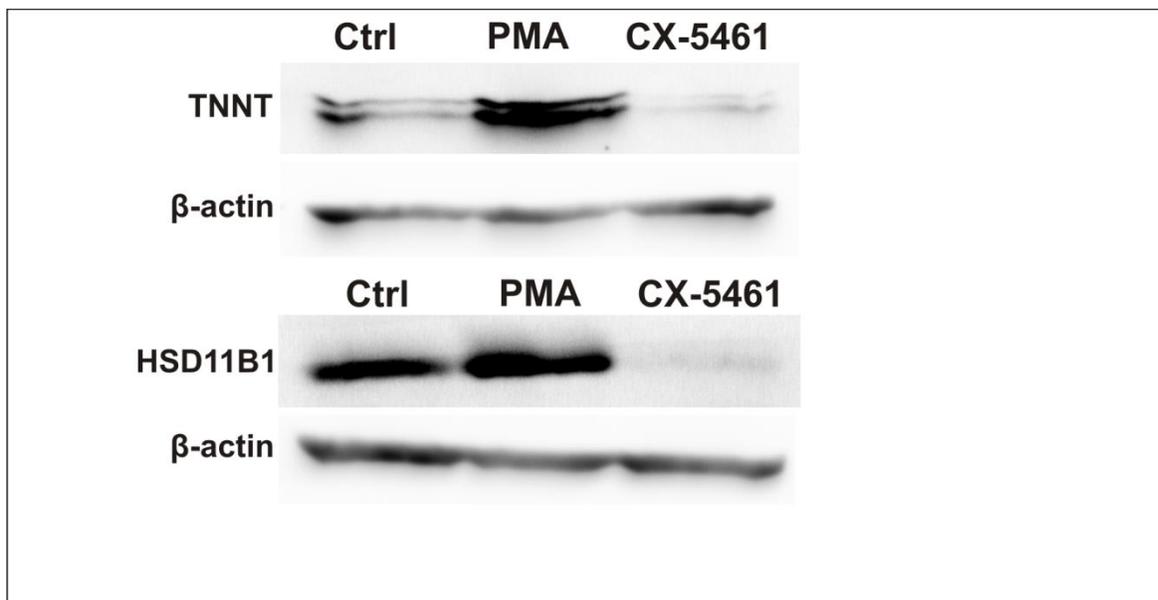


### Figure S1. The level of total p53 in control (Ctrl), PMA or CX-5461 MO3.13 treated cells.

Results are presented as a ratio of total p53 normalized to actin (loading control). Densitometric analysis of results (n=6) was performed with the use of one sample *t* test. Results are presented as means ± standard error. The level of statistical significance is indicated using \* $p \leq 0.05$ , \*\* $p \leq 0.01$ .



**Figure S2. Analysis of cell proliferation.** MO3.13 cells were cultured for 72 h in the absence (control; Ctrl) or presence of PMA (n=4), \*\* $p \leq 0.01$ .



**Figure S3. The protein level of TNNT and HSD11B1 in MO3.13 cells, control (Ctrl) and treated with PMA or CX-5461.** Actin served as loading control.

**Table S1. Sequences of primers used in RT-qPCR.**

<b>Gene</b>	<b>Forward Primer (5'-&gt;3')</b>	<b>Reverse Primer (5'-&gt;3')</b>
<i>18S</i>	CGCCGCTAGAGGTGAAATTC	TTGGCAAATGCTTTCGCTC
<i>CASQ2</i>	AGCTTGTGGAGTTTGTGAAG	GGATTGTCAGTGTTGTCCC
<i>HSD11B1</i>	GACAGCGAGGTCAAAAGAAA	GTCCTCCCATGAGCTTTCCTG
<i>MYH *</i>	GAGGACATGGCCATGATGAC	GGCATTGTCAGAGATGGAGAAG
<i>TNNT3</i>	AGGAGGAGGATGCCAAGAGGA	TCCTTGGCCTTGTCCTCAGTTT
<i>GPR17</i>	GAGAGATGCTGAAACTCTCAGC	CAGGGAGAAGTTGGTGATCAGAC
<i>MBP</i>	ACCCAAGATGAAAACCCCGTA	TCCGTAGCCAAATCCTGGTCT
<i>MOG</i>	TTTTGATCCCCACTTCTGAGG	CGTAGCTCTTCAAGGAATTGCC

**Table S2. MO3.13 genes with statistically significant change in expression after PMA treatment. 6769 genes were up-regulated and 5856 - down-regulated.**

(Table S2, please see the excel file)