



**Supplementary Figure 1. A.** Expression of transcripts coding for spinal OTase in control and NMS rats, as measured by RT-qPCR. No significant difference between conditions has been detected using unpaired Student t-test, N=8 CTRL and NMS. **B.** Expression of transcripts coding for spinal 3α-HSD, 5α-reductase II, P450scc and TSPO in control and NMS rats, as measured by RT-qPCR. No significant difference between conditions has been detected using One Way ANOVA, N=8 CTRL and NMS.

Name	Reference sequence	Amplicon region	Forward sequence (5' to 3')	Reverse sequence (5' to 3')
<b>3<math>\alpha</math>-HSD</b>	NM138547	330 - 423	ACCAGAGCTGGTCCGAACCTT	CAAAGCCATTGGGAAATGAA
<b>5<math>\alpha</math>-red II</b>	NM022711	49 - 146	TGCAGATTGTCTGCCATCAG	GTAAGTGGCGGGTTTCCCTA
<b>HDAC 1</b>	NM001025409	247 - 344	CGTTCTATTCGCCCAGATAAC	AACTCAAACAAGCCATCAAAT
<b>HDAC 2</b>	NM053447	1415 - 1510	AATTTCCATTGAGCATCAGA	TCAGCAACATTCTACGACCT
<b>HDAC 3</b>	NM053448	1238 - 1346	GGGGTCCTGAGGAGAACTAC	CATCCATGCTGCTCTTAAATC
<b>HDAC 4</b>	NM053449	986 - 1089	ATGTACGACGCCAAAGATGA	CTGCTCCGTCTCTCAGCTACT
<b>HDAC 5</b>	NM053450	2084 - 2184	GAGGAGGACTGCATTCAGGTC	GCGAACAACCTTTTGTAAACCA
<b>HDAC 6</b>	KY009929	1929 - 2015	AATCGTGGATTGGGATGTTC	CGGTGCAGGGACACGTATAAT
<b>HDAC 7</b>	AF321135	472 - 564	CCCCTGCGTAAACAGTGTCT	CTTCCTGAGCAGGGGATT
<b>HDAC 8</b>	NM001126373	921 - 1023	GACTGTGTCCCTGCACAAGTT	GGGCACATTGACACTGTAGT
<b>HDAC 9</b>	NM001200045	1666 - 1775	CCTGGAGAAGCAGAAGCAATA	CCTCCTCTGCCTCTTCAAGAT
<b>HPRT</b>	NM012583	558 - 647	GGTGAAAAGGACCTCTCGAA	TCAAGGGCATATCCAACAACA
<b>OT</b>	NM012996	80 - 164	CTCTGACCTCCGCCTGCTA	GGAAGACACTTGCGCATATCC
<b>OTR</b>	NM012871	732 - 825	TCGCCGTCTACATTGTACCG	GCTGCCGTCTTGAGTCTCAG
<b>OTase</b>	NM001113403	1934 - 2029	CCAGAGAAAGGGGACTGAGC	TGCCAAAGGTGGCTTGATC
<b>P450scc</b>	NM017286	679 - 780	GATGTTGGAGGAGATCGTGGA	AAGTCTGGAGGCATGTTGAGC
<b>TSPO</b>	NM012515	152 - 243	ATGGGAGCCTACTTTGTGCGT	GGAGCGAGTGTCCAGCGA

**Supplementary Table 1.** List of primer sequences used to amplify genes of interest by quantitative RT-PCR.