

Additional File 1

Specific probes und primers used for qRT-PCR

PCR Probe	Oligonukleotidsequence (5'-3')	GenBank Nr.
iNOS	S: 5'-gATggCACCATCATAggggAC-3' A: 5'-ggCACCTgggAACTCAA-3' FL: 5'-TGGAACACCCCAAATACGAGTGGTTCC-FL CY5: L670-GGAGCTGGAGCTGAAGTGGTACGCC-Phos	NM_001143690
TNF-α	S: 5'-CCCAGAAggAAgAgTTTCCA-3' A: 5'-CggCTTTgACATTggCTACA-3' FL: 5'-ggCCCAAggACTCagATCATCgTC-FL CY5: L670-CAAACCTCagATAAgCCCgTCgC-Phos	NM_214022
IL-1β	S: 5'-ACCCTgCagCTggAggAT-3' A: Red-CCTTTggAgTTTCCCAggA-3'	NM_214321
IL-6	S: 5'-CCAATCTgggTTCAATCAggA-3' A: 5'-gTggTggCTTTgTCTggATTC-3' FL: 5'-TgTCgAggCTgTgCagATTAgtACCA-FL CY5: L670-gCACTgATCCAgACCCTgAggCAA-Phos	NM_214399
PGH2	S: 5'-CCCCTTCTgCCTgACgC-3' A: 5'-CTCTgCTCTggTCgATTgAgg-3' FL: 5'-TCTATCTTACTggAACATggCATCACCCA-FL CY5: L670-TTTgTTgAATCATTTAgCAggCAAATTgCT-Phos	NM_214321
PPIA	S: 5'-CTTTCACAgAATAATTCCAaggATT-3' A: 5'-ggACAAGATgCCAaggACC-3' FL: 5'-ATgCTTCAggATAAAAATTCTCATCATCAAA-FL CY5: L670-TTCTCTCCATAgATggACTTgCCACCA-Phos	NM_214353

Table S1: Probes and Primers used for quantitative real-time polymerase chain reaction (qRT-PCR). S: sense Primer; A: anti-sense Primer; FL: Fluoreszin; CY5: CY5-coupled, Phos: Phosphate; iNOS: Sus scrofa nitric oxide synthase 2, inducible (iNOS), mRNA; TNF- α : Sus scrofa tumor necrosis factor (TNF superfamily, member 2) (TNF- α), mRNA; IL-1 β : Sus scrofa interleukin 1 beta (IL-1 β), mRNA; IL-6: Sus scrofa interleukin 6 (interferon, beta 2) (IL-6), mRNA; PGH2: Sus scrofa prostaglandin G/H synthase-2 (PGH2), mRNA; PPIA: Sus scrofa peptidylprolyl isomerase A (PPIA), mRNA.

Absolute copy numbers of investigated genes – median (Q1; Q3)		
	Control group (Copy numbers / PPIA)	Intervention group (Copy numbers / PPIA)
TNF-α	0,0217 (0,0164; 0,0258)	0,0385 (0,0264; 0,0434)
IL-1β	0,00232 (0,00184; 0,00260)	0,00523 (0,00441; 0,00998)
IL-6	0,294 (0,215; 0,328)	0,554 (0,457; 0,596)
iNOS	0,000742 (0,000726; 0,000780)	0,002667 (0,001493; 0,001785)
PGH2	0,943 (0,801; 1,087)	1,191 (0,985; 1,354)

Table S2: Absolute copy numbers of investigated genes by quantitative real-time polymerase chain reaction (qRT-PCR) from lung tissue. TNF- α : Sus scrofa tumor necrosis factor; IL-1 β : Sus scrofa interleukin 1 beta; IL-6: Sus scrofa interleukin 6; iNOS: Sus scrofa nitric oxide synthase 2; PGH2: Sus scrofa prostaglandin G/H synthase-2. Results are presented as median, 25% and 75% quartile (Q1; Q3).