

TABLE S1A. Inter-group comparisons: BSMCs from healthy controls versus BSMCs from asthma subjects; BSMCs from healthy control smokers versus BSMCs from COPD subjects

Inter-group comparisons: BSMCs Healthy Controls versus Asthma					
Pro-inflammatory and pro-fibrotic markers	polyI:C-BSMCs Controls versus polyI:C-BSMCs Asthma		polyI:C+1,25D3-BSMCs Controls versus polyI:C + 1,25D3-BSMCs Asthma		
	mRNA expression		mRNA expression		
	mean difference ± SEM	<i>p</i> values	mean difference ± SEM	<i>p</i> values	
<i>IL-6</i>	7.68 ± 1.08	< 0.001	1.16 ± 0.67	> 0.05	
<i>IFN-β1</i>	7.08 ± 2.25	< 0.05	2.64 ± 0.85	< 0.05	
<i>CCL2</i>	10.81 ± 3.44	< 0.05	5.88 ± 0.91	< 0.001	
<i>FN1</i>	6.78 ± 0.65	< 0.01	1.77 ± 0.41	< 0.01	
<i>COL1A1</i>	3.68 ± 1.21	< 0.05	2.73 ± 0.43	> 0.05	
	Protein levels		Protein levels		
	mean difference ± SEM	<i>p</i> values	mean difference ± SEM	<i>p</i> values	
IL-6	592.8 ± 132	< 0.01	241.6 ± 123	> 0.05	
MCP-1	571.9 ± 358.5	< 0.001	219 ± 108	> 0.05	
FN1	263 ± 94	< 0.05	118 ±40	< 0.05 0.033	
Type I collagen	20.67 ± 3.77	< 0.01	3.97 ± 2.2	> 0.05	
Inter-group comparisons: BSMCs Healthy Control Smokers versus COPD Smokers					
Pro-inflammatory and pro-fibrotic markers	polyI:C-BSMCs Controls versus polyI:C-BSMCs COPD		polyI:C+1,25D3-BSMCs Controls versus polyI:C + 1,25D3-BSMCs COPD		
	mRNA expression		mRNA expression		
	mean difference ± SEM	<i>p</i> values	mean difference ± SEM	<i>p</i> values	
<i>IL-6</i>	13.12 ± 5.57	< 0.05	40.24 ± 15.39	< 0.05	
<i>IFN-β1</i>	48.57 ± 12.12	< 0.01	6.65 ±2.21	< 0.01	
<i>CCL2</i>	13.12 ± 5.57	< 0.05	5.3 ± 0.45	< 0.01	
<i>FN1</i>	2.05 ± 0.8	< 0.05	0.54 ± 0.24	< 0.05	
<i>COL1A1</i>	1.4 ± 0.57	< 0.05	0.59 ± 0.25	< 0.05 0.033	
	Protein levels		Protein levels		
	mean difference ± SEM	<i>p</i> values	mean difference ± SEM	<i>p</i> values	
IL-6	1150 ± 188	< 0.01	954 ± 217	< 0.001	
MCP-1	784 ± 85.9	< 0.001	488.9 ± 120	< 0.01	
FN1	181 ± 74	< 0.05	69.3 ± 58.73	> 0.05	
Type I collagen	6.0 ± 2.52	< 0.05	2.93 ± 3.35	> 0.05	

TABLE S1B. Intra-group comparisons: BSMCs from healthy controls and BSMCs from asthma subjects; BSMCs from healthy control smokers and BSMCs from COPD subjects

Intra-group comparisons: BSMC -Healthy Controls and Asthma				
Pro-inflammatory and pro-fibrotic markers	polyI:C, BSMCs Controls versus polyI:C + 1,25D3, BSMCs Controls		polyI:C, BSMCs Asthma versus polyI:C + 1,25D3, BSMCs Asthma	
	mRNA expression		mRNA expression	
	mean difference $\pm$ SEM	<i>p</i> values	mean difference $\pm$ SEM	<i>p</i> values
<i>IL-6</i>	1.95 $\pm$ 0.8	< 0.05	8.47 $\pm$ 0.91	< 0.001
<i>IFN-β1</i>	3.26 $\pm$ 0.82	< 0.01	7.71 $\pm$ 1.95	< 0.01
<i>CCL2</i>	3.39 $\pm$ 1.63	> 0.05	8.22 $\pm$ 2.78	< 0.05
<i>FN1</i>	0.32 $\pm$ 0.17	> 0.05	5.33 $\pm$ 0.64	< 0.0001
<i>COL1A1</i>	1.35 $\pm$ 0.62	< 0.05	3.88 $\pm$ 1.06	< 0.01
	Protein levels		Protein levels	
	mean difference $\pm$ SEM	<i>p</i> values	mean difference $\pm$ SEM	<i>p</i> values
<i>IL-6</i>	343.2 $\pm$ 80.9	< 0.01	694.4 $\pm$ 162	< 0.01
<i>MCP-1</i>	301.6 $\pm$ 71.1	< 0.01	653 $\pm$ 100	< 0.01
<i>FN1</i>	270 $\pm$ 62.9	< 0.05	416 $\pm$ 70.3	< 0.01
<i>Type I collagen</i>	4.03 $\pm$ 2.2	> 0.05	18.9 $\pm$ 1.69	< 0.001
Intra-group comparisons: BSMCs Healthy Control Smokers and COPD Smokers				
Pro-inflammatory and pro-fibrotic markers	polyI:C, BSMCs Controls versus polyI:C + 1,25D3, BSMCs Controls		polyI:C, BSMCs COPD versus polyI:C + 1,25D3, BSMCs COPD	
	mRNA expression		mRNA expression	
	mean difference $\pm$ SEM	<i>p</i> values	mean difference $\pm$ SEM	<i>p</i> values
<i>IL-6</i>	3.63 $\pm$ 1.77	< 0.05	70.3 $\pm$ 32.66	< 0.05
<i>IFN-β1</i>	5.14 $\pm$ 1.61	< 0.05	46.61 $\pm$ 10.52	0.0022
<i>CCL2</i>	4.84 $\pm$ 1.9	< 0.05	13.53 $\pm$ 4.57	< 0.05
<i>FN1</i>	0.3 $\pm$ 0.15	> 0.05	1.84 $\pm$ 0.71	< 0.05
<i>COL1A1</i>	0.7 $\pm$ 0.12	< 0.01	1.51 $\pm$ 0.52	< 0.05
	Protein levels		Protein levels	
	mean difference $\pm$ SEM	<i>p</i> values	mean difference $\pm$ SEM	<i>p</i> values
<i>IL-6</i>	390 $\pm$ 134	< 0.05	593 $\pm$ 254	< 0.05
<i>MCP-1</i>	317 $\pm$ 101.1	< 0.05	612.2 $\pm$ 107	< 0.01
<i>FN1</i>	225 $\pm$ 47.2	< 0.05	337 $\pm$ 67.3	< 0.01
<i>Type I collagen</i>	11.07 $\pm$ 2.04	< 0.01	17.4 $\pm$ 1.67	< 0.001