

**S3 Table. Genes involved in COPD pathogenesis pathways identified by Ingenuity pathway analysis software and in literature <sup>a</sup>**

n=58		n=18		n=21		n=25	
COPD genes by Kaneko 2013 (IPA software)		COPD genes by Campbell 2012		COPD genes by Ezzei 2012		COPD genes by Chen 2008	
ABCC1	INTS12	ACVRL1		ACVR1		AKR1B1	
ACE	IREB2	BCL11A		AGBL1		AKR1B10	
ADAM19	LEP	BMPR2		BMP7		CDC2L1	
ADAM33	MACROD2	ENG		E2F4		CDKN1A	
ADRB2	MMP1	EPAS1 (HIF-2a)		GDF10		clCAM-1	
AGER	MMP12	GATA2		INHBB		COL1A1	
BICD1	MMP9	ITGB1		LTBP1		CP	
CHRNA3	MSR1	KLF13		MAF		CTGF	
CHRNA5	NFKBIB	SMAD1		MYH11		CX3CL1	
CNTN5	NOS3	SMAD2		PLN		CXCL8	
CSF2	NPNT	SMAD3		PPP1R3C		CXCR1	
CTLA4	PDE4D	SMAD6		ROCK1		CXCR2	
CYP2A6	PPT2	SMAD7		SAPS1		CXCR3	
DBP	SERPINA1	TAL1		SFTPA1B		CXCR8	
EDN1	SERPINE2	TBX3		SLIT2		CYP1B1	
EPHX1	SFTPB	TGFB		SMAD7		CYR61	
ESR1	SFTPD	TGFBR1		SMURF1		ERG	
FAM13A	SIRT2	TGFBR2		SOSTDC1		IGFBP5	
FGF7	SOD3			TGFBR1		LUM	
GC	STAT1			TGFBR2		MGC11242	
GSTCD	TGFB1			THBS1		MMP7	
GSTM1	THSD4					PDGFRA	
GSTO2	TLR4					SOD2	
GSTP1	TNFA					TGFB1	
HHIP	TNS1					TGFBR3	
HMOX1	TP53						
HTR4	TRPV4						
IL13	XRCC1						
IL1B							
IL6							

<sup>a</sup> Yellow shaded cells are miR-196a2 target genes.