

Supplementary Table 6. List of ECM-associated networks derived from pathway analysis of airflow obstruction GWAS. The highest scoring network was comprised of 23 gene products of which 21 had direct interactions (Figure 4 in the manuscript). To compare the density of connectivity between the top two networks we also depict direct interactions between the 15 members of the 2nd highest scoring network. The relational networks were created using Ingenuity Pathway Analysis software.

Network Members	Network Score
ACAN, COL15A1, COL18A1, COL1A2, COL3A1, COL4A2, COL4A4, COL5A1, COL5A3, COL6A3, COL9A1, FBLN1, FBLN2, FBN1, FBN2, HAPLN1, LAMA4, LAMC1, LUM, MFAP5, MMP10 , NID2, THBS4	48
ACTA1, ACTN1, ACTN2, ANG, DSPP, ERBB2IP, ITGB1, LAMB1, LAMB2, OPTC, PTK2, TNXB, VCAN, VCL, ZYX	27
COL4A3, CRKL, CSK, FBLN5, ITGA1, LAMA1, LAMA2, LAMA3, LTBP4, MEPE, POSTN, RAP1A	20
ADAMTS9, BCR, CAPN1, CAPNS1, CAV3, PI3, ROCK1, SGCA, SGCD, SGCE, SGCG, SSPN	20
AGRN, CHI3L1, COL10A1, COL16A1, CTGF, MAP2K1, MAPK8, RAF1	12
ADAMTS5, COL11A1, JUN, MAPK3, PRELP, SMC3	8
DGCR6, ECM1, FBLN2, LTBP4, SNTB1, SNTG2	8
CAV1, COL13A1, FYN, HRAS, SRC	7
IMPG1, ODAM, USH2A	3

