

Supplemental Table 1: Minor Allele Frequency of Common Variants

Gene	cDNA Change	Mutation	IPF (n=132) [n (MAF)]	COPD (n=192) [n (MAF)]	ESP [MAF]	dbSNP Number
<i>SFTPA2</i>	c.271G>C	A91P	29 (11%) ⁺	69 (18%) ⁺	15%	rs17886395
	c.667C>A	Q223K	41 (16%) ^o	69 (18%)*	25% ^{o*}	rs1965708
<i>SFTPC</i>	c.413C>A	T138N	63 (24%)	108 (28%)	27%	rs4715
	c.557G>A	S186N	66 (25%)	123 (32%)	33%	rs1124
<i>ABCA3</i>	c.1059C>T	F353F	22 (8.3%)	36 (9.4%)	9.8%	rs13332514
	c.1755C>G	P585P	48 (18%)	60 (15.6%)	19.8%	rs323043
	c.4116T>C	S1372S	25 (9.5%)	36 (9.4%)	8.5%	rs149532
<i>TERT</i>	c.835G>A	A279T	4 (1.5%)	7 (1.8%)	3%	rs61748181
<i>MUC5B</i>	c.16306G>A	V5436M	2 (0.8%) ^{++oo}	19 (5%) ⁺⁺	3.2% ^{oo}	rs55657020

⁺ IPF vs COPD: p=0.015

^o IPF vs ESP: p<0.001

* COPD vs ESP: p=0.001

⁺⁺ IPF vs COPD: p=0.003

^{oo} IPF vs ESP: p=0.02

all other comparisons, p>0.05

For Supplemental Table 1, the racial distribution of these variants could not be calculated since these allele frequencies were based upon pooled samples. Thus, all subjects in each cohort were compared with the combined frequencies of the African and European descent individuals in the ESP.

Supplemental Table 2: IPF-associated mutations and *MUC5B* rs35705950 genotype

Gene	Mutation	<i>MUC5B</i> rs35705950 genotype
<i>SFTPA2</i>	V178M	G/G
<i>SFTPC</i>	I73T	G/G
	I73T	G/T
	I73T	G/T
	L110R	G/T
	A112T	G/G
<i>ABCA3</i>	E292V/E292V	G/G
	E292V	G/G
	E292V	G/T
<i>TERT</i>	R108P	G/T
	L332F	G/G
	H592R	G/T
	P704S	G/T
	P704S	G/T