

**Integrative analysis of lung molecular signatures reveals key drivers of idiopathic
pulmonary fibrosis**

Sung Kyoung Kim^{1*}, Seung Min Jung^{2*}, Kyung-Su Park², Ki-Jo Kim²

¹ Division of Pulmonology, Department of Internal Medicine, St. Vincent's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea

² Division of Rheumatology, Department of Internal Medicine, St. Vincent's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea

* Both authors contributed equally to this work.

Supplementary Table

Table S1.

(A) A summary of the datasets used in the study

Dataset	Reference	Country	Platform	IPF	NC	Lung tissue sampling	Source
GSE10667	<i>Am J Respir Crit Care Med.</i> 2009;180:167-175. ¹	USA	Affymetrix	31	15	Explanted lung biopsy or warm autopsy	
GSE21369	<i>BMC Med Genomics.</i> 2011;4:8. ²	USA	Illumina	11	6	Surgical lung biopsy or lungs explanted during lung transplantation	LTRC
GSE24206	<i>BMC Med Genomics.</i> 2011;4:70. ³	USA	Agilent	17	6	Surgical lung biopsy or lungs explanted during lung transplantation	
GSE32537	<i>Thorax.</i> 2013;68:1114-1121. ⁴	USA	Agilent	119	50	Surgical lung biopsy or lungs explanted during lung transplantation	LTRC
GSE35145	<i>Am J Respir Crit Care Med.</i> 2012;186:525-535. ⁵	USA	Agilent	4	4	Surgical lung biopsy or lungs explanted during lung transplantation	LTRC
GSE47460	<i>Am J Respir Crit Care Med.</i> 2016;194:1392-1402. ⁶	USA	Affymetrix	160	108	Surgical lung biopsy or lungs explanted during lung transplantation	LTRC
GSE53845	<i>Thorax.</i> 2015;70:48-56. ⁷	USA	Illumina	40	8	Surgical lung biopsy or lungs explanted during lung transplantation	
GSE72073	<i>Respir Res.</i> 2015;16:124. ⁸	China	Illumina	5	3	Surgical lung biopsy	
GSE83717	<i>BMC Pulm Med.</i> 2017;17:15. ⁹	USA	Affymetrix	6	5	Surgical lung biopsy or lungs explanted during lung transplantation	LTRC
GSE99621	<i>Clin Immunol.</i> 2018;325:1-13. ¹⁰	USA	Illumina	18	8	Lungs explanted during lung transplantation	
GSE110147	<i>Respir Res.</i> 2018;19:153. ¹¹	Canada	Affymetrix	22	11	Lungs explanted during lung transplantation	
GSE124685	<i>JCI Insignt.</i> 2019;4:e131597. ¹²	USA	IonTorrent	49	35	Lungs explanted during lung transplantation	LTRC
GSE150910	<i>Am J Respir Crit Care Med.</i> 2020;202:1430-1444. ¹³	USA	Illumina	103	103	Surgical lung biopsy or lungs explanted during lung transplantation	LTRC
Total				585	362		

IPF, idiopathic pulmonary fibrosis; LTRC, Lung Tissue Research Consortium; NC, normal controls.

(B) A demographic summary of the patients with IPF used in the study

Dataset	Number of IPF samples	Sex Male (%)	Age (mean)	Smoking (%)	Race	FVC% (mean)	DLCO% (mean)
GSE10667	31	22 (70.9)	68.1	20 (64.5)	Caucasian 31	68.6	48.3
GSE21369	11	8 (72.7)	58.1	NA	Caucasian 10 African-American 1	62.7	NA
GSE24206	17	12 (70.6)	64.2	NA	NA	60.7	44.3
GSE32537	119	77 (64.7)	62.6	70 (58.8)	Caucasian 111 Other 8	61.2	45.1
GSE35145	4	3 (75.0)	60.3	NA	Caucasian 4	NA	NA
GSE47460	160	110 (68.8)	64.1	99 (61.9)	Caucasian 146 African-American 8 Asian 3 Hispanic 2 Other 1	64.3	48.0
GSE53845	40	32 (80)	70	29 (72.5)	NA	70.3	49.6
GSE72073	5	5 (100)	51.1	NA	NA	NA	NA
GSE83717	6	NA	NA	NA	NA	NA	NA
GSE99621	18	18	71.1	4	Caucasian 18	44.8	35.5
GSE110147	22	17 (77.3)	62	NA	NA	57	37
GSE124685	49	49	57	49	NA	58.7	27.6
GSE150910	103	57 (55.3)	60.3	55 (53.4)	Caucasian 85 Hispanic 7 Asian 2 African-American 4 Other 4	56.2	40.8

DLCO, Diffusing capacity of the Lung for carbon monoxide; FVC, forced vital capacity; IPF, idiopathic pulmonary fibrosis; NA, not available

(C) A demographic summary of the normal subjects used in the study

	GSE32537	GSE47460	GSE150910	Others
Number	50	108	103	101
Age, mean (year)	47.5	63.6	59.9	
Sex, male (%)	27 (54)	49 (45)	45 (44)	
Race, Caucasian (%)	41 (82)	100 (92)	NA	
Smoking (%)	28 (56)	65 (59.9)	53 (55)	
FVC%, mean	NA	94.4	72.0	
DLCO%, mean	NA	84.1	97.7	

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