

**Table S1** The 217 keywords with at least 218 occurrences

Rank	Keywords	Cluster	Links	Occurrences	Average publication years	Average citations
1	Absence	1	213	261	2016.2	24.11
2	Accumulation	2	212	528	2016.3	31.92
3	Activation	2	215	1,535	2016.5	28.82
4	Activity	2	216	1,328	2016.2	22.33
5	Acute exacerbation	1	212	937	2016.4	37.65
6	Addition	2	216	673	2016.3	26.05
7	AE IPF	1	185	282	2017.4	14.49
8	Age	1	216	1,396	2016.6	25.71
9	Alpha	2	214	871	2016.0	21.81
10	Alpha SMA	2	193	323	2016.5	21.21
11	Alveolar epithelial cell	2	207	415	2016.1	25.71
12	Analysis	1	216	3,154	2016.8	23.72
13	Apoptosis	2	204	738	2016.0	27.63
14	Area	1	216	682	2016.3	19.90
15	Article	1	210	322	2016.0	20.94
16	Association	1	215	839	2016.5	30.80
17	Asthma	2	204	344	2016.5	20.68
18	Autophagy	2	176	266	2016.6	41.40
19	Bal	3	210	261	2015.8	37.34
20	Balf	3	204	340	2016.0	14.97
21	Baseline	1	207	523	2016.9	33.07
22	Beta	2	214	814	2016.2	21.95
23	Biomarker	3	216	998	2016.8	20.90
24	Bleomycin	2	210	1,380	2016.1	22.89
25	BLM	2	197	709	2017.2	14.69
26	Bronchoalveolar lavage fluid	3	211	240	2015.8	19.25
27	Cancer	2	212	451	2016.5	30.91
28	Capacity	1	216	848	2016.3	29.60
29	Carbon monoxide	1	208	326	2016.6	27.99
30	Case	1	215	1,394	2016.0	23.01
31	Cause	1	214	683	2016.3	35.55
32	Cell	2	216	4,908	2016.2	27.24
33	Change	1	216	1,805	2016.5	34.25
34	Chronic	2	215	286	2016.9	20.20
35	Chronic lung disease	2	207	264	2016.7	23.91

**Table S1** (continued)

**Table S1** (continued)

Rank	Keywords	Cluster	Links	Occurrences	Average publication years	Average citations
36	Chronic obstructive pulmonary disease	2	213	444	2016.5	22.31
37	Clinical trial	1	214	562	2016.4	30.35
38	Cohort	1	209	870	2017.0	32.34
39	Collagen	2	213	717	2016.1	24.33
40	Combination	1	216	317	2016.7	32.66
41	Comorbidity	1	189	349	2017.5	24.54
42	Comparison	1	215	306	2016.7	19.75
43	Concentration	3	216	707	2016.1	17.60
44	Condition	2	216	787	2016.3	20.55
45	Confidence interval	1	197	231	2016.6	27.56
46	Connective tissue disease	1	202	397	2016.4	24.26
47	Contrast	2	216	272	2015.8	26.39
48	Control	3	216	1,155	2015.9	24.85
49	Control group	3	210	267	2016.4	13.15
50	COPD	2	214	589	2016.7	24.84
51	Correlation	1	215	498	2016.1	22.23
52	Cough	1	193	385	2016.5	21.24
53	CTD	1	187	366	2015.9	26.77
54	CTD ILD	1	178	238	2017.1	18.65
55	Cytokine	2	214	483	2016.1	26.57
56	Data	1	216	2,032	2016.6	27.94
57	Day	2	216	1,348	2016.2	27.40
58	Death	1	215	1,007	2016.6	44.67
59	Decline	1	215	819	2017.1	46.98
60	Development	2	216	1,732	2016.5	27.13
61	Diagnosis	1	215	2,648	2016.6	33.36
62	Difference	1	216	806	2016.6	36.10
63	Differentiation	2	213	638	2016.3	32.00
64	Disease	2	216	4,539	2016.5	26.16
65	Disease progression	1	216	623	2016.8	39.32
66	Disease severity	1	211	270	2016.4	24.42
67	DLCO	1	198	490	2016.8	20.62
68	Drug	1	216	882	2017.1	20.14
69	Dyspnea	1	207	350	2016.0	26.52

**Table S1** (continued)

**Table S1** (continued)

Rank	Keywords	Cluster	Links	Occurrences	Average publication years	Average citations
70	ECM	2	198	351	2017.1	37.46
71	Effect	2	216	2,991	2016.7	22.62
72	Efficacy	1	213	704	2017.0	29.81
73	Emphysema	1	209	568	2016.1	21.12
74	EMT	2	192	663	2016.2	25.57
75	Epithelial mesenchymal transition	2	186	282	2016.2	27.61
76	Evaluation	1	215	614	2016.5	21.21
77	Evidence	1	216	1,120	2016.5	45.07
78	Exposure	2	216	692	2016.3	25.08
79	Expression	2	216	4,204	2016.0	24.72
80	Extent	1	214	456	2015.9	23.42
81	Extracellular matrix	2	211	435	2016.7	37.35
82	Factor	2	216	1,456	2016.5	23.02
83	Fibroblast	2	207	1,865	2016.2	27.83
84	Fibrosis	2	216	3,775	2016.2	31.79
85	Fibrotic disease	2	210	309	2016.5	39.14
86	Function	2	215	1,033	2016.6	26.05
87	FVC	1	213	1,198	2017.0	46.71
88	Gene	2	215	1,306	2016.3	25.97
89	Group	1	216	3,274	2016.7	29.31
90	Growth factor	2	212	635	2015.9	25.12
91	Growth factor beta	2	211	476	2016.0	26.07
92	Hazard ratio	1	196	271	2016.9	43.32
93	Healthy control	3	214	331	2016.7	16.39
94	High resolution	1	202	437	2016.3	26.92
95	HRCT	1	194	580	2016.4	18.46
96	Identification	1	215	302	2016.4	27.98
97	Idiopathic interstitial pneumonia	1	215	493	2015.8	23.36
98	Idiopathic pulmonary fibrosis	1	216	6,718	2016.5	33.77
99	IIP	1	191	576	2016.0	23.07
100	ILD	1	216	3,771	2017.1	18.89
101	Impact	1	216	597	2017.0	21.25
102	Important role	2	213	284	2016.0	21.40
103	Incidence	1	213	566	2016.3	39.04
104	Increase	2	216	760	2016.2	26.86

**Table S1** (continued)

**Table S1** (continued)

Rank	Keywords	Cluster	Links	Occurrences	Average publication years	Average citations
105	Individual	1	213	360	2015.9	40.72
106	Infection	1	213	620	2016.5	24.61
107	Inflammation	2	216	1,179	2016.3	22.48
108	Inhibition	2	206	700	2016.6	26.28
109	Inhibitor	2	215	929	2016.6	25.56
110	Injury	2	214	806	2016.1	32.78
111	Interstitial lung disease	1	216	2,570	2016.8	20.16
112	Interstitial pneumonia	1	214	899	2015.8	24.88
113	IPF	1	216	10,737	2016.6	25.29
114	IPF lung	2	203	262	2016.1	30.32
115	IPF patient	1	216	1,586	2016.6	17.85
116	January	1	192	217	2016.7	15.86
117	Level	3	216	3,224	2016.3	17.78
118	Life	1	216	625	2016.9	27.66
119	Loss	2	216	489	2016.6	28.99
120	Lung	2	216	2,966	2016.2	26.78
121	Lung cancer	1	215	1,029	2016.6	17.93
122	Lung disease	2	216	1,645	2016.3	27.44
123	Lung fibroblast	2	206	1,109	2016.5	22.78
124	Lung fibrosis	2	216	1,593	2016.4	29.11
125	Lung function	1	216	588	2017.0	29.12
126	Lung injury	2	215	617	2016.0	25.14
127	Lung tissue	2	216	850	2016.5	24.43
128	Lung transplantation	1	209	800	2016.0	18.15
129	Macrophage	2	210	714	2016.8	31.03
130	Management	1	209	818	2016.7	30.60
131	Marker	2	216	898	2016.2	25.22
132	Measurement	1	215	451	2016.4	39.40
133	Mechanism	2	216	1,764	2016.4	31.65
134	Microrna	2	195	265	2016.4	34.46
135	Mir	2	185	1,000	2016.8	29.39
136	Mirna	2	182	282	2016.8	23.54
137	MMP	2	203	487	2015.2	35.06
138	Model	2	216	2,520	2016.6	26.06
139	Month	1	212	1,153	2016.5	24.28

**Table S1** (continued)

**Table S1** (continued)

Rank	Keywords	Cluster	Links	Occurrences	Average publication years	Average citations
140	Mortality	1	215	1,917	2016.9	26.91
141	Mouse	2	212	2,230	2016.2	24.97
142	Myofibroblast	2	197	647	2015.9	41.16
143	Myofibroblast differentiation	2	185	379	2015.9	38.84
144	Need	1	212	434	2016.7	23.25
145	Nintedanib	1	211	678	2017.8	42.89
146	NSIP	1	200	489	2015.7	15.93
147	Number	1	216	811	2016.2	29.93
148	Outcome	1	216	1,510	2016.8	22.31
149	Oxidative stress	2	204	295	2016.5	24.66
150	Part	2	216	281	2015.8	30.04
151	Participant	1	197	323	2016.9	31.46
152	Pathogenesis	2	216	1,400	2016.2	29.50
153	Pathway	2	215	1,869	2016.7	25.88
154	Patient	1	216	15,676	2016.6	24.20
155	Pattern	1	215	1,497	2016.4	26.81
156	PFID	2	155	259	2017.3	12.59
157	Pirfenidone	1	212	1,284	2016.7	35.35
158	Placebo	1	189	381	2017.0	103.75
159	Poor prognosis	1	215	317	2016.9	18.38
160	Population	1	215	781	2016.4	32.71
161	Presence	1	216	651	2016.0	23.34
162	Present study	2	215	317	2016.5	14.22
163	Prevalence	1	205	489	2016.4	28.19
164	Process	2	216	1,138	2016.2	33.37
165	Production	2	212	707	2016.2	27.23
166	Prognosis	1	215	870	2016.5	24.85
167	Progression	2	216	1,060	2016.8	26.79
168	Proliferation	2	212	1,018	2016.3	27.65
169	Protein	2	216	1,643	2016.1	23.15
170	Pulmonary fibrosis	2	216	3,136	2016.5	23.90
171	Pulmonary function	1	213	246	2016.3	26.28
172	Pulmonary hypertension	1	213	478	2015.8	21.60
173	Quality	1	206	622	2016.9	32.90
174	Range	1	215	449	2016.2	23.59

**Table S1** (continued)

**Table S1** (continued)

Rank	Keywords	Cluster	Links	Occurrences	Average publication years	Average citations
175	Rat	2	191	480	2016.6	12.44
176	Rate	1	216	1,342	2016.7	30.60
177	Rationale	1	213	244	2016.5	50.89
178	Receptor	2	213	918	2016.2	23.84
179	Regulation	2	206	605	2016.0	29.37
180	Relationship	1	215	475	2016.2	22.76
181	Response	2	216	1,583	2016.3	30.35
182	Review	1	214	1,388	2016.7	26.55
183	Risk	1	215	1,182	2016.6	25.65
184	Risk factor	1	215	572	2017.0	30.19
185	Role	2	216	2,655	2016.4	25.42
186	Safety	1	205	452	2017.0	37.51
187	Sarcoidosis	3	204	445	2016.1	16.31
188	Serum	3	214	402	2015.8	18.80
189	Severity	1	214	455	2016.4	19.13
190	Significant difference	1	214	329	2016.5	24.03
191	SSC	1	208	498	2016.3	25.88
192	Study	1	216	5,961	2016.7	23.55
193	Subject	1	215	1,193	2016.1	30.95
194	Surgical lung biopsy	1	195	278	2015.8	40.13
195	Survival	1	216	2,060	2016.5	29.67
196	Symptom	1	212	575	2016.5	20.32
197	Systemic sclerosis	1	211	378	2016.4	30.69
198	TGF	2	208	463	2016.2	21.61
199	TGF beta	2	215	2,116	2016.2	24.11
200	Therapy	1	216	2,244	2016.7	22.80
201	Time	1	216	1,291	2016.5	31.36
202	Tissue	2	215	803	2016.3	35.06
203	Tomography	1	209	704	2016.4	18.02
204	Total	1	210	402	2017.2	24.39
205	Treatment	1	216	4,142	2016.7	24.39
206	Trial	1	208	851	2016.8	49.65
207	Type	2	216	1,162	2016.1	27.67
208	UIP	1	208	988	2015.9	24.93
209	Understanding	2	216	480	2016.5	27.11

**Table S1** (continued)

**Table S1** (continued)

Rank	Keywords	Cluster	Links	Occurrences	Average publication years	Average citations
210	Use	1	216	913	2016.9	21.54
211	Usual interstitial pneumonia	1	212	479	2015.9	26.39
212	Value	1	216	806	2016.7	22.09
213	Vital capacity	1	213	606	2016.7	37.86
214	Vitro	2	208	539	2016.4	26.26
215	Vivo	2	189	272	2016.6	24.90
216	Week	1	215	649	2016.9	51.69
217	Year	1	216	2,077	2016.6	26.34