

Pearson correlation between IL7 and IPF feature genes

Gene	Result from this study		r from
	r (95%CI)	p_value	GeneFriends
CRHR1	N/A	N/A	N/A
CAV1	-0.11(-0.31, 0.09)	0.281	0.05
MUC5AC	0.27(0.07, 0.45)	9.1E-03	0.19
ELMOD2	0.4(0.21, 0.56)	9.3E-05	N/A
SFTPA2	-0.32(-0.49, -0.12)	2.3E-03	0.03
MUC5B	0.24(0.03, 0.42)	0.024	0.03
STAT3	-0.1(-0.3, 0.11)	0.338	0.34
ESR1	0.28(0.08, 0.46)	6.6E-03	0.28
TERT	0.12(-0.09, 0.32)	0.251	0.13
WNT5A	0.08(-0.13, 0.28)	0.474	0.02
ATP11A	-0.36(-0.52, -0.16)	5.5E-04	0.28
DPP9	-0.38(-0.54, -0.19)	2.3E-04	0.33
DSP	0.26(0.05, 0.44)	0.014	0.03
FAM13A	0.22(0.02, 0.41)	0.033	0.35
GPER1	-0.11(-0.31, 0.1)	0.293	0.11
PARN	N/A	N/A	N/A
RTEL1	-0.12(-0.32, 0.09)	0.262	0.36
SFTPC	-0.34(-0.51, -0.15)	0.001	0.13
STN1	-0.27(-0.45, -0.06)	0.011	0.27
TERC	-0.05(-0.25, 0.16)	0.659	0
MMP3	-0.09(-0.29, 0.12)	0.405	0.01
PLAU	-0.09(-0.29, 0.12)	0.384	0.15
HIF1A	0.02(-0.19, 0.23)	0.850	0.24
AGT	0.06(-0.15, 0.26)	0.579	0.05
CR1	0.14(-0.07, 0.33)	0.194	0.04
CXCL10	0.08(-0.13, 0.28)	0.467	0.06
CXCL5	-0.09(-0.29, 0.11)	0.379	0.06
FCGR2A	-0.04(-0.24, 0.17)	0.739	0.18
FCGR3B	0.21(0, 0.39)	0.051	0.13
IL6	0.16(-0.05, 0.36)	0.126	0.1
LTA	N/A	N/A	N/A
MICA	-0.27(-0.45, -0.07)	9.8E-03	0.09
MMP1	-0.05(-0.26, 0.15)	0.606	0
PTGS2	0.19(-0.02, 0.38)	0.075	0.27
TGFB1	-0.38(-0.54, -0.19)	2.2E-04	0.31
TNF	N/A	N/A	N/A
TNFRSF1B	-0.16(-0.36, 0.04)	0.120	0.19
VEGFA	-0.06(-0.27, 0.14)	0.545	0.24
ACE	-0.18(-0.37, 0.03)	0.085	0.2
CDKN1A	0.03(-0.18, 0.24)	0.763	0.19
EGFR	-0.09(-0.29, 0.12)	0.388	0.01
ERBB2	-0.05(-0.25, 0.16)	0.663	0.11
ERBB3	0(-0.21, 0.21)	0.996	0.08
HLA-DRB1	N/A	N/A	N/A
IFNG	0.16(-0.05, 0.35)	0.131	0.18
IL10	0.16(-0.05, 0.35)	0.136	0.14
IL12A	0.27(0.07, 0.45)	0.010	0.17
IL13	0.14(-0.07, 0.34)	0.183	0.02
IL1A	0.08(-0.13, 0.28)	0.473	0.04
SFTPA1	-0.32(-0.5, -0.13)	1.8E-03	0.09
TOLLIP	-0.27(-0.45, -0.07)	0.008	0.32
MAPT-AS1	-0.02(-0.23, 0.18)	0.837	0.15
MDGA2	0.12(-0.08, 0.32)	0.245	0.12
STN1	-0.27(-0.45, -0.06)	0.011	0.27

Supplementary table 4. part1

Above lists the Pearson correlation coefficients between the expression of IL7 and those of known IPF feature genes. The IPF associated feature genes are collected from CTDBase, the Harmonizome, and NCBI. The type 1 error of the null hypothesis test is set as 0.05.

The last column list the correlation coefficients calculated from 46475 human transcripts from the GeneFriends.org database.

Pearson correlation between AC083837.1 and IPF feature genes

Result from this study		
Gene	r (95%CI)	p_value
CRHR1	N/A	N/A
CAV1	-0.41(-0.57, -0.23)	4.8E-05
MUC5AC	0.34(0.15, 0.51)	8.7E-04
ELMOD2	0.1(-0.11, 0.3)	0.357
SFTPA2	-0.33(-0.5, -0.14)	1.3E-03
MUC5B	0.39(0.2, 0.55)	1.4E-04
STAT3	0.23(0.03, 0.42)	0.027
ESR1	0.21(0, 0.4)	0.047
TERT	0.35(0.15, 0.52)	7.4E-04
WNT5A	0.05(-0.16, 0.25)	0.651
ATP11A	-0.22(-0.41, -0.02)	0.034
DPP9	-0.04(-0.25, 0.16)	0.678
DSP	0.17(-0.04, 0.36)	0.108
FAM13A	-0.05(-0.25, 0.16)	0.634
GPER1	-0.26(-0.45, -0.06)	0.011
PARN	N/A	N/A
RTEL1	0.09(-0.12, 0.29)	0.392
SFTPC	-0.43(-0.58, -0.24)	2.4E-05
STN1	-0.35(-0.52, -0.15)	6.9E-04
TERC	-0.04(-0.25, 0.16)	0.677
MMP3	0.1(-0.1, 0.3)	0.322
PLAU	0.3(0.1, 0.48)	3.7E-03
HIF1A	0.39(0.2, 0.55)	1.3E-04
AGT	0.32(0.13, 0.5)	1.7E-03
CR1	0.33(0.14, 0.5)	1.3E-03
CXCL10	0.33(0.13, 0.5)	1.7E-03
CXCL5	0.25(0.05, 0.43)	0.017
FCGR2A	0.1(-0.11, 0.3)	0.347
FCGR3B	0.26(0.06, 0.44)	0.012
IL6	0.43(0.24, 0.58)	2.3E-05
LTA	N/A	N/A
MICA	-0.28(-0.46, -0.07)	8.0E-03
MMP1	0.26(0.06, 0.44)	0.012
PTGS2	0.27(0.07, 0.45)	0.009
TGFB1	0(-0.21, 0.21)	0.996
TNF	N/A	N/A
TNFRSF1B	0.24(0.04, 0.43)	0.019
VEGFA	-0.02(-0.23, 0.18)	0.820
ACE	-0.09(-0.29, 0.12)	0.410
CDKN1A	0.41(0.22, 0.57)	5.6E-05
EGFR	-0.34(-0.51, -0.15)	8.6E-04
ERBB2	-0.03(-0.24, 0.18)	0.768
ERBB3	-0.29(-0.47, -0.09)	4.8E-03
HLA-DRB1	N/A	N/A
IFNG	0.07(-0.14, 0.27)	0.501
IL10	0.26(0.06, 0.45)	0.011
IL12A	0.23(0.03, 0.42)	0.027
IL13	0.25(0.04, 0.43)	0.018
IL1A	0.08(-0.13, 0.28)	0.446
SFTPA1	-0.32(-0.5, -0.12)	1.8E-03
TOLLIP	-0.07(-0.27, 0.14)	0.510
MAPT-AS1	0.13(-0.08, 0.33)	0.213
MDGA2	0.08(-0.13, 0.28)	0.478
STN1	-0.35(-0.52, -0.15)	6.9E-04

Supplementary table 4. part2

This table lists the Pearson correlation coefficients between the expression of IL7 and those of known IPF feature genes. The IPF associated feature genes are collected from CTDbase, the Harmonizome, and NCBI. The type 1 error of the null hypothesis test is set as 0.05.