Table S1. Patient information

Sample ID	Source	Tissue type	Tumor differentiation status	Stage	Sex	Age	Race
hT97	Johns Hopkins University	Pancreas Tumor	Moderately differentiated	IB	Female	81	Other
hT99	Memorial Sloan Kettering Cancer Center	Pancreas Tumor	Poorly differentiated	IV	Male	65	White
hT103	Johns Hopkins University	Pancreas Tumor	Poorly differentiated	IIB	Male	87	White
hT137	Johns Hopkins University	Pancreas Tumor	Poorly differentiated	IIA	Male	74	White
hT149	Johns Hopkins University	Pancreas Tumor	Moderately differentiated	IB			
hN149	Johns Hopkins University	Pancreas Adjacent Normal	N/A	N/A	Female	71	White
hT150	Johns Hopkins University	Pancreas Tumor	Moderately differentiated	IIB			
hN150	Johns Hopkins University	Pancreas Adjacent Normal	N/A	N/A	Male	64	White

Table S2. Cell numbers analyzed from each human sample

hT97	hT99	hT103	hT137	hN149	hT149	hN150	hT150	Total
2862	5797	1354	1578	953	2190	4657	1809	21200

Table S3. Statistics of the clustering analysis of the human single cell RNA sequencing (scRNAseq)

Cluster	Cells	Normal	Tumor	P-Value	FDR
1	2356	1169	1187	1.68E-179	2.51E-178
2	1032	130	902	2.05E-18	3.08E-17
3	8952	2251	6701	0.07775508	1
4	6940	1715	5225	0.4786068	1
5	204	64	140	0.02387092	0.3580638
6	231	15	216	4.27E-10	6.40E-09
7	371	13	358	1.52E-20	2.28E-19
8	325	61	264	0.02287718	0.34315774
9	392	141	251	1.12E-07	1.67E-06
10	133	11	122	2.47E-05	0.00037077
11	32	3	29	0.07728217	1
12	81	16	65	0.40515295	1
13	56	7	49	0.05627189	0.84407829
14	37	4	33	0.08432909	1
15	58	10	48	0.26841135	1
Total	**21200**	**5610**	**15590**		

Table S5. Statistics of the human ductal cell analysis

Cluster	Cells	Normal	Tumor	P-Value	FDR
1	936	37	899	1.28E-47	5.13E-47
2	90	90	0	6.58E-62	2.63E-61
3	323	62	261	0.03664159	0.14656636
4	53	10	43	0.44236014	1
Total	**1402**	**199**	**1203**		

Table S7. Statistics of the human myeloid cell analysis

Cluster	Cells	Normal	Tumor	P-Value	FDR
1	3362	617	2745	7.03E-16	4.22E-15
2	3649	1482	2167	5.95E-116	3.57E-115
3	76	11	65	0.06139931	0.36839586
4	593	0	593	4.20E-43	2.52E-42
5	69	28	41	0.00267075	0.0160245
6	126	0	126	3.78E-10	2.27E-09
Total	**7875**	**2138**	**5737**		

Table S9. Statistics of the human T & NK cell analysis

Cluster	Cells	Normal	Tumor	P-Value	FDR
1	3137	1532	1605	5.12E-224	2.56E-223
2	2260	3	2257	4.01E-158	2.00E-157
3	658	10	648	4.27E-42	2.14E-41
4	293	78	215	0.39979229	1
5	44	8	36	0.43764159	1
Total	**6392**	**1631**	**4761**		

Table S11. Cell numbers analyzed for fibroblast subtypes from each human sample

Cluster	hT97	hT99	hT103	hT137	hT137 FE	hN149	hT149	hN150	hT150
iCAF	15	27	123	NA	19	1	NA	1	5
myCAF	23	62	3	23	592	2	26	5	35
Total	**38**	**89**	**126**	**23**	**611**	**3**	**26**	**6**	**40**

Table S12. Statistics of the human fibroblast analysis

Cluster	Cells	Normal	Tumor	P-Value	FDR
iCAF	191	2	189	1.20E-13	2.39E-13
myCAF	781	7	774	2.40E-52	4.80E-52
Total	**972**	**9**	**963**		

Table S17. Statistics of all viable KPC mouse cell analysis

Cluster	Sample 1	Sample 2	Sample 3	Sample 4	Total
1	2047	970	2864	2141	**8022**
2	200	6	54	54	**314**
3	106	21	23	14	**164**
4	224	969	44	60	**1297**
5	57	4	59	109	**229**
6	93	53	42	10	**198**
7	127	58	243	110	**538**
8	17	10	15	19	**61**
9	68	45	50	23	**186**
10	16	8	21	3	**48**
11	10	3	3	16	**32**
12	0	0	0	171	**171**
Total	**2965**	**2147**	**3418**	**2730**	**11260**

Table S19. Statistics of the KPC mouse fibroblast-enriched fraction analysis

Cluster	Cells
1	171
2	83
3	2311
4	1170
5	983
6	3165
7	23
8	479
9	31
10	27
Total	**8443**

Table S21. Statistics of the fibroblasts from KPC mouse fibroblast-enriched population

Cluster	Cells
iCAF	1373
apCAF	964
myCAF	1675
Total	**4012**