

## Supplementary Tables

**Supplementary table 1:** CT values for demoplasia-related genes in PAN02 tumors.

Data obtained from PCR array.

Gene	Lean	Obese	Fold Regulation
Col3a1	24.45	22.74	2.8839
Mmp2	29.39	27.51	3.2944
Mmp9	29.43	28.22	2.0705
Mmp13	32.84	29.9	3.727
Mmp14	27.36	25.23	2.1258
Tgfb2	32.25	29.73	2.7856
Thbs2	29.32	27.29	3.6553
Tnf- $\alpha$	34.08	32.63	2.4453
Tgfr1	28.4	27.29	1.9319
Mdk	32.03	30.51	2.5669
Fgfr3	33.31	32.14	2.0139
Snai1	33.03	31.01	1.9697
Stat6	33.31	31.32	1.9292
Timp3	28.61	26.57	1.9972

**Supplementary table 2:** CT values for demoplasia-related genes in AK4.4 tumors.

Data obtained from PCR array.

Gene	Lean	Obese	Fold Regulation
Acta2	23.22	21.69	3.9724
Angiotensinogen	32.04	29.13	10.3388
Col1a2	20.88	20.04	2.4623
Col3a1	19.85	18.89	2.6759
Col4a3	33.76	30.33	10.748
Decorin	23.32	20.71	8.3977
Mmp1a	28.87	26.08	9.5137
Mmp2	22.83	21.82	2.00830
Mmp3	26.43	24.62	4.8232
Mmp19	26.24	25.06	2.2595
Timp3	25.21	24.46	2.3134
Timp4	35	27.61	230.7201
Tbx1	31.74	28.86	7.3411
Bmp7	30.54	28.44	5.8971
Anpep	25.35	24.13	2.323
Lysil oxidase	24.44	23.67	2.3457

**Supplemental table 3** Univariate analysis of prognostic factors for resected pancreatic cancer patients with body mass index (BMI)  $\leq 25$

		N	Overall survival (days)		P-value (log rank)
			Median	95% CI	
<b>Tumor size<sup>1</sup></b>		145			<0.001
<b>Lymph vessel</b>	Absent	56	925	254-1596	
<b>Invasion<sup>2</sup></b>	Present	88	541	430-652	0.033
<b>Perineural</b>	Absent	10	896	0-2171	
<b>Invasion<sup>3</sup></b>	Present	134	608	460-756	0.183
<b>Pathological</b>	1-2	85	806	280-1332	
<b>grading</b>	3-4	60	497	431-563	0.007
<b>Lymph nodes</b>	Negative	44	1300	720-1880	
	Positive	101	536	434-638	0.001
<b>Tumor site</b>	Other	38	701	309-1093	
	Head	107	658	494-822	0.569
<b>Surgical margin</b>	Negative	115	732	392-1072	
	Positive	30	496	365-627	0.045
<b>Adjuvant radiation</b>	No	99	604	434-774	
	Yes	46	806	158-1454	0.075
<b>Adjuvant</b>	No	41	454	263-645	
<b>chemotherapy</b>	Yes	104	732	435-1029	0.142

<sup>1</sup> continuous variable

<sup>2</sup> missing, n=1

<sup>3</sup> missing, n=1

**Supplemental table 4** Multivariate analysis of prognostic factors for resected pancreatic cancer patients with body mass index (BMI)  $\leq 25$

		<b>Overall survival</b>		<b>P-value (Cox regression)</b>
		<b>HR</b>	<b>95% CI</b>	
<b>Tumor size<sup>1</sup></b>		1.03	1.01-1.05	0.014
<b>Lymph vessel invasion</b>	Absent	1		
	Present	1.3	0.8-2.1	0.244
<b>Pathological grading</b>	1-2	1		
	3-4	1.4	0.9-2.1	0.115
<b>Lymph nodes</b>	Negative	1		
	Positive	2.4	1.4-4.1	0.002
<b>Surgical margin</b>	Negative	1		
	Positive	1.6	1.0-2.6	0.057
<b>Adjuvant radiation</b>	No	1		
	Yes	0.7	0.4-1.0	0.074
<b>Adjuvant chemotherapy</b>	No	1		
	Yes	0.5	0.3-0.8	0.005

<sup>1</sup> continuous variable

**Supplemental table 5** Univariate analysis of prognostic factors for resected pancreatic cancer patients with body mass index (BMI) >25

		N	Overall survival (days)		P-value (log rank)
			Median	95% CI	
<b>Tumor size<sup>1</sup></b>		164			<0.001
<b>Lymph vessel</b>	Absent	68	1206	661-1751	
<b>Invasion</b>	Present	96	635	342-928	0.006
<b>Perineural</b>	Absent	25	N/A <sup>3</sup>	N/A <sup>3</sup>	
<b>Invasion<sup>2</sup></b>	Present	138	677	469-885	0.011
<b>Pathological</b>	1-2	100	1009	697-1321	
<b>Grading</b>	3-4	64	561	422-700	0.026
<b>Lymph nodes</b>	Negative	54	1714	863-2565	
	Positive	110	656	489-823	0.001
<b>Tumor site</b>	Other	39	635	531-739	
	Head	125	911	705-1117	0.173
<b>Surgical margin</b>	Negative	134	911	655-1167	
	Positive	30	612	559-665	0.056
<b>Adjuvant radiation</b>	No	107	658	390-926	
	Yes	57	971	648-1294	0.310
<b>Adjuvant</b>	No	33	591	0-1665	
<b>chemotherapy</b>	Yes	131	862	634-1090	0.517

**Abbreviations:** N/A, not applicable.

<sup>1</sup>continuous variable

<sup>2</sup> Missing, n=1

<sup>3</sup> Could not be calculated since 14 cases (56%) were censored

**Supplemental table 6** Multivariate analysis of prognostic factors for resected pancreatic cancer patients with body mass index (BMI) >25

		<b>Overall survival</b>		<b>P-value</b>
		<b>HR</b>	<b>95% CI</b>	<b>(Cox regression)</b>
<b>Tumor size<sup>1</sup></b>		1.01	1.00-1.01	0.012
<b>Lymph vessel invasion</b>	Absent	1		
	Present	1.1	0.7-1.8	0.625
<b>Perineural invasion</b>	Absent	1		
	Present	1.7	0.9-3.4	0.104
<b>Pathological grading</b>	1-2	1		
	3-4	1.4	1.0-2.2	0.082
<b>Lymph nodes</b>	Negative	1		
	Positive	1.6	0.9-2.6	0.081
<b>Surgical margin</b>	Negative	1		
	Positive	1.4	0.8-2.4	0.194
<b>Adjuvant chemotherapy</b>	No	1		
	Yes	0.6	0.4-1.0	0.062

<sup>1</sup> continuous variable