

Pancreatic acinar differentiation is guided by differential laminin deposition.

Charlotte Heymans, Jonathan Degosserie, Catherine Spourquet & Christophe E. Pierreux

Supplementary Information

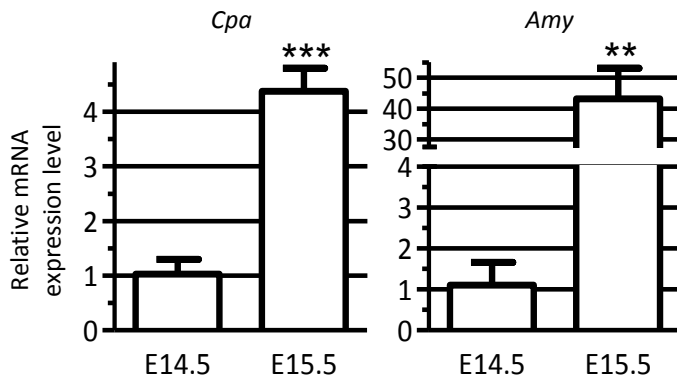


Figure S1: Acinar differentiation increases from E14.5 to E15.5 *in vivo*.

RT-qPCR analysis of acinar markers *Cpa* and *Amy* compared to β -actin on E14.5 and E15.5 pancreata. The increase of *Cpa* and *Amy* expression illustrates acinar differentiation. (Student T-test: **, $p < 0.01$; ***, $p < 0.001$).

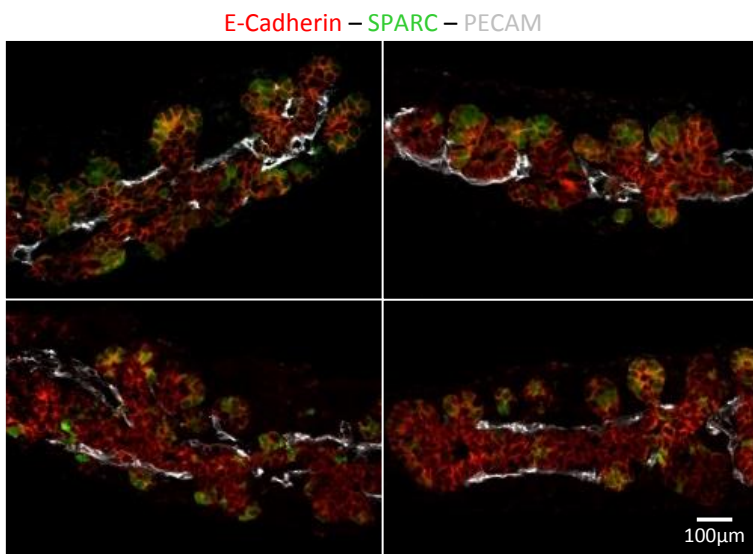


Figure S2: SPARC is found in developing acini.

Immunofluorescence for SPARC (green), the pancreatic epithelium marker (E-cadherin, red) and the endothelial marker PECAM (white) in explants at 3 days. SPARC is predominantly found in the epithelial cells located at the periphery of the explant, at a distance of endothelial cells (PECAM⁺ cells).

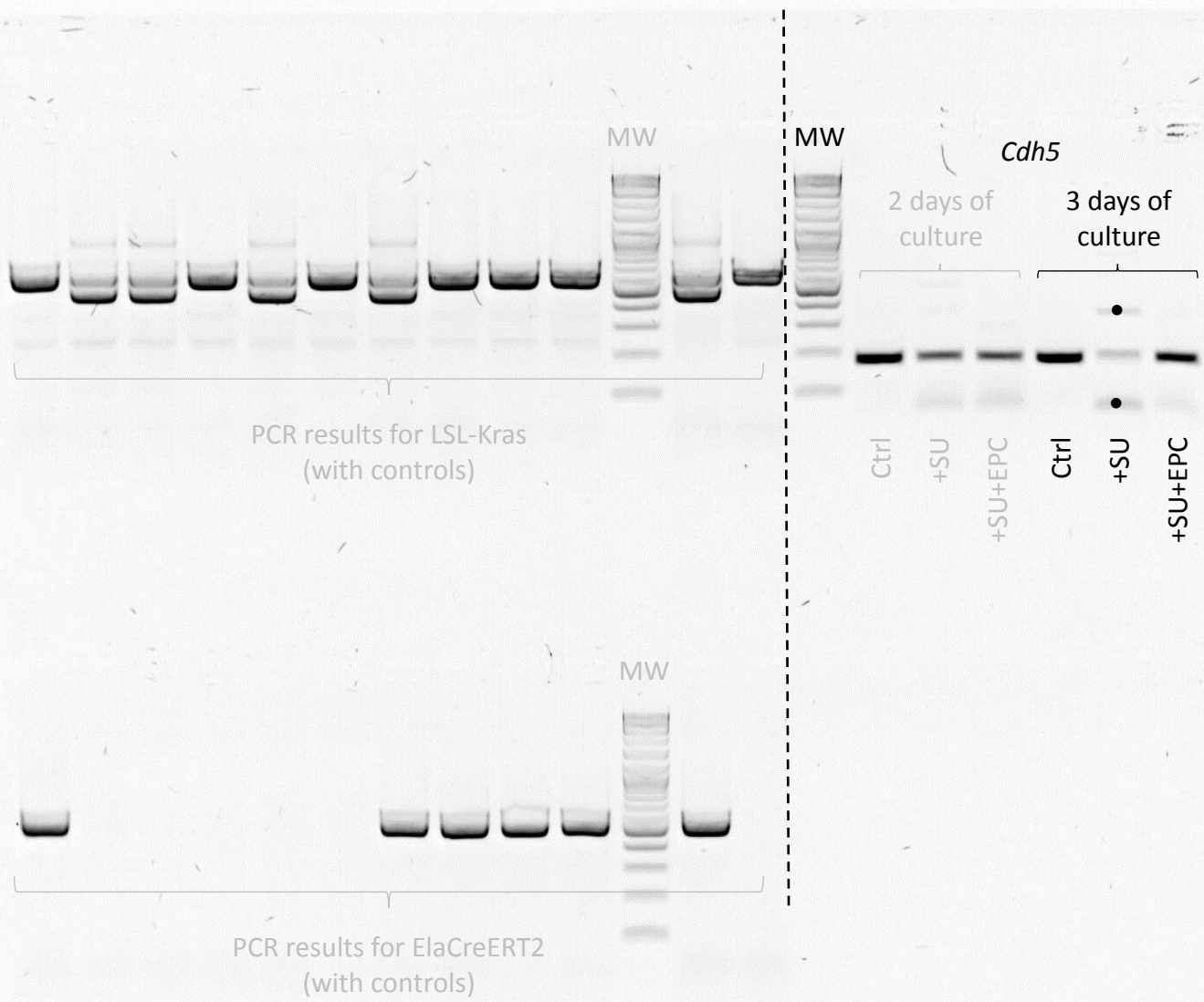


Figure S3: Full-length gel shown in Figure 2b.

The left side of the gel contains PCR samples of genotyping experiments (non relevant in this study). The PCR results of *Cdh5* expression measured in explants cultured for 2 and 3 days in control medium (Ctrl), supplemented with SU5416 (+SU) and EPC (+SU+EPC), are found on the right side of the gel.

Table S1: Primers

Primer Name	Forward Sequence	Reverse Sequence	Primer efficiency (%)
<i>Amy</i>	5'-GTGGTCAATGGTCAGCCTTT-3'	5'-TTGCCATCGACCTTATCTCC-3'	98.8%
<i>Car2</i>	5'-TTGATGACTCTCAGGACAATGC-3'	5'-CTTGTGAGGCAGGTCCAATCTTC-3'	98%
<i>Cdh5</i>	5'-GGATGTGGTGCCAGTAAACC-3'	5'-ACCCCGTTGTCTGAGATGAG-3'	101.22%
<i>Cpa</i>	5'-CTCCTGACAAGGAGGAGCTG-3'	5'-ATAGTGCTCCCACTGGCTTG-3'	76.2%
<i>E-Cadherin</i>	5'-AGGGAGCTGTCTACCAAAGTG-3'	5'-GGAAACATGAGCAGCTCTGGG-3'	96.1%
<i>Flk-1</i>	5'-GCATGGAAGAGGATTCTGGA-3'	5'-CGGCTCTTCGCTTACTGTT-3'	90.5%
<i>Gcg</i>	5'-GCACATTCACCAGCGACTACA-3'	5'-CGGTTCTCTTGGTGTTTCATC-3'	88%
<i>Hnf1b</i>	5'-GAAAGCAACGGGAGATCCTC-3'	5'-GACTGCCAGGCCCTGGTTCTGT-3'	92.2%
<i>Ins2</i>	5'-CAGGTGACCTTCAGACCTT-3'	5'-GGGTCTAGTTGCAGTAGTTC-3'	95%
<i>Pecam</i>	5'-ATAGGCATCAGTGCCAGTC-3'	5'-TCCGCTCTGCACTGGTATTTC-3'	91.6%
<i>Prox1</i>	5'-CCGACATCTCACCTTATTAG-3'	5'-TGCGAGGTAATGCATCTGTTG-3'	104%
<i>Ptf1a</i>	5'-TGCCATCGAGGCACCCGTTTC-3'	5'-TGAGCTGTTTTTCATCAGTCCAG-3'	89.6%
<i>Rbpj</i>	5'-GGTCCCAGACATTTCTGCAT-3'	5'-GGAGTTGGCTCTGAGAATCG-3'	91.1%
<i>Rbpjl</i>	5'-CAGAGCATGCCATCATCCTA-3'	5'-AGTCCCATGTAACCGCAGAC-3'	91.1%
<i>Sox9</i>	5'-CAAGACTCTGGGCAAGCTCTG-3'	5'-TCCGCTTGTCGTTCTTCAC-3'	92.3%
<i>β-Actin</i>	5'-TCCTGAGCGCAAGTACTCTGT-3'	5'-CTGATCCACATCTGCTGGAAG-3'	100.3%

Table S2: Antibodies

Antibody	Supplier	Reference	Species	Dilution	Unmasking	Embedding
Amylase	Sigma	A8273	rabbit	1/300	+	gelatin
E-Cadherin	BD Biosciences	610182	mouse IgG2a	1/300	- or +	paraffin or gelatin
Laminin-α1	gift from T. Sasaki	/	rabbit	1/1,000	-	paraffin
pan-Laminin	Sigma	L9393	rabbit	1/200	- or +	gelatin
PECAM	BD Biosciences	550274	rat	1/100	-	gelatin
PECAM	Dianova	DIA310	rat	1/20	+	paraffin
SPARC	Santa Cruz	AON-1	mouse IgG3	1/300	-	gelatin