



Figure 5: Glucose controls beta cell differentiation in reaggregated pancreases.

a: Immunohistological analysis of reaggregated E13.5 rat pancreases, after 7 days of culture in the absence or in the presence of 10mmol/l added glucose. Insulin was revealed in red, amylase in green, and nuclei were stained in blue using a Hoechst dye. Scale bar, 100 μ m.

b: Left panel – Quantification of the relative surface area occupied by insulin-positive cells after 7 days of culture in the absence or in the presence of 10mmol/l added glucose. Right panel – Quantification of the relative surface area occupied by amylase-positive cells after 7 days of culture in the absence or in the presence of 10mmol/l added glucose.