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Columns: REVIEW

Endothelium-derived essential signals involved in pancreas organogenesis

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Abstract

Endothelial cells (ECs) are essential for pancreas differentiation, endocrine specification, and endocrine function. They are also involved in the physiopathology of Type 1 (T1DM) and Type 2 (T2DM) diabetes. During embryogenesis, aortic ECs provide specific factors that maintain the expression of key genes for pancreas development such as pancreatic and duodenal homeobox-1 (PDX-1). Other unknown factors are also important for pancreatic endocrine specification and formation of insulin-producing beta cells. Endocrine precursors proliferate interspersed with ductal cells and exocrine precursors and at some point of development; these endocrine precursors migrate to pancreatic mesenchyme and start forming the islets of Langerhans. By the end of the gestation and close to birth,

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Signals from endothelial cells (ECs) to liver cells, for example, have been found to ... Similarly, pigment epithelium-derived factor (PEDF) was shown to be secreted ... below the key processes and cell types involved in pancreas development; are essential signaling centers during organogenesis and tissue homeostasis.

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