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Manuscript NO: 63332

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Effects of CXCL12 isoforms in a pancreatic pre-tumour cellular model: microarray analysis

CXCL12 isoforms in a PDAC model

Abstract

BACKGROUND

Pancreatic ductal adenocarcinoma (PDAC) is the fourth leading cause of death among cancers, it is characterized by poor prognosis and strong chemoresistance. In the PDAC microenvironment, stromal cells release different extracellular components, including CXCL12. The CXCL12 is a chemokine promoting the communication between tumour and stromal cells. Six different splicing isoforms of CXCL12 are known (α , β , γ , δ , ϵ , θ)

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This antimicrobial gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. The encoded protein functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4, and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis.

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