TGFBI, an ECM interacting protein, enhances glycolysis and promotes pancreatic cancer cell migration LIÈGE universi GIGA Cancel B. Costanza, G. Rademaker, A. Turtoi, A. Bellahcène, V. Castronovo, O. Peulen* METASTASIS 🚽 LIÈGE universite Metastasis Research Laboratory RESEARCH **Center for Interdisciplinary**

GIGA-Cancer & Center for Interdisciplinary Research on Medicines - ULiège

LABORATORY

Research on Medicines

Introduction

Pancreatic ductal adenocarcinoma (PDAC) remains a deadly malignancy with no efficient therapy available up-to-date. Thanks to a patented technology for mass spectrometry-assisted identification of accessible tumor markers, developed in our laboratory, we have identified transforming growth factor-beta-induced protein (TGFBI) as a targetable protein in pancreas adenocarcinoma. We focused our attention on its biological significance in PDAC.



the discovery of reliable biomarkers and therapeutic targets can improve early diagnosis and treatment outcomes. To that end, we identify the ECM TGFBI as a promising target. In PDAC patients, high TGFBI expression was associated with poor outcome. Mechanistic analyses show that TGFBI activates FAK signaling via integrin $\alpha V\beta 5$ binding, enhancing glycolysis and invasiveness in PDAC cells.

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