



Universiteit
Leiden
The Netherlands

Modulating the behaviour of pancreatic tumour cells

Vlecken, D.H.W.

Citation

Vlecken, D. H. W. (2015, January 28). *Modulating the behaviour of pancreatic tumour cells*. Retrieved from <https://hdl.handle.net/1887/31599>

Version: Not Applicable (or Unknown)

License: [Leiden University Non-exclusive license](#)

Downloaded from: <https://hdl.handle.net/1887/31599>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/31599> holds various files of this Leiden University dissertation

Author: Vlecken, Daniëlle

Title: Modulating the behaviour of pancreatic tumour cells

Issue Date: 2015-01-28

Modulating the behaviour of pancreatic tumour cells

Daniëlle Vlecken

Printed by Printenbind.nl

ISBN 978-94-62285-80-4

Modulating the behaviour of pancreatic tumour cells

Proefschrift

ter verkrijging van

de graad van Doctor aan de Universiteit Leiden,

op gezag van Rector Magnificus prof.mr. C.J.J.M. Stolker, volgens besluit van het

College voor Promoties

te verdedigen op woensdag 28 januari 2015 klokke 15:00 uur

door

Daniëlle Helena Wilhelmina Vlecken

geboren te Ain Aar, Libanon in 1975

Promotiecommissie:

Prof.dr. H.P. Spaink (Promotor; Universiteit Leiden)

Prof.dr. M.K. Richardson (Promotor; Universiteit Leiden)

Prof. dr. C.P. Bagowski (Co-promotor; Institute of Prenatal Medicine, München, Germany)

Prof.dr. C.J. ten Cate (Universiteit Leiden)

Prof.dr. R.M. Kini (National University of Singapore)

Prof. dr. A.J. Durston (Universiteit Leiden)

Prof. dr. J. den Hertog (Universiteit Leiden en het Hubrecht Instituut, Utrecht)

This work was supported by the Institute of Biology Leiden (IBL).

Table of Contents

Chapter 1: Introduction	7
Chapter 2: The oncogenic potential of HOX genes in pancreatic cancer cell dissemination and tumour- induced angiogenesis	21
Chapter 3: LIMK1 and LIMK2 are important for metastatic behaviour and tumour cell-induced angiogenesis of pancreatic cancer cells	47
Chapter 4: Iridium Complex with Antiangiogenic Properties	65
Chapter 5: Whole snake venoms: Cytotoxicity, anti-metastatic and anti-angiogenic properties	79
Chapter 6: Discussion	99
Nederlandse samenvatting	105
Curriculum Vitae	109

