

Identification of novel targets in prostate cancer progression Ghotra, V.P.S.

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Author: Ghotra, Veerander Paul Singh **Title:** Identification of novel targets in prostate cancer progression

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ABBREVIATIONS

AR Androgen receptor
DHT Dihydrotestosterone
PSA Prostate specific antigen

AIPC Androgen independent prostate cancer

3D Three dimensional
 CS Cell spheroids
 ECM Extracellular matrix
 2D Two dimensional

ZF Zebrafish

MCD Mean cumulative distance

RT Radiotherapy

LIST OF PUBLICATIONS

Ghotra VPS, Puigvert JC, Danen EH.The cancer stem cell microenvironment and anti-cancer therapy. Int J Radiat Biol. 2009 Nov;85(11):955-62.

Le Devedec SE, Yan K, de Bont H, **Ghotra VPS**, Truong H, Danen EH, Verbeek F, Van de Water B .System microscopy approaches to understand cancer cell migration and metastasis. Cell Mol Life Sci. 2010 Oct; 67(19): 3219-40.

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Truong H, Xiong J, **Ghotra VPS**, Nirmala E, Haazen L, Le Devedec S, He S, Snaar-Jagalska E, Amiet A, Vreugdenhil E, Meerman JH, Van de Water B, Danen EH. Integrin regulation of TGF beta/miR200/ZEB signaling network controls breast cancer migration strategy and metastasis. *Submitted*

Ghotra VPS, He S, Van der horst G, Nijhoff S, de Bont H, Lekkerkerker A, Janssen R, Jenster G, Leenders G.J.H.L. van, Hoogland AM, Baranski Z, Van de water B, Van der Pluijm G,Snaar-Jagalska BE, Danen EH. siRNA screen identifies SYK as a candidate player in prostate cancer progression. *Submitted*

Ghotra VPS, He S, Van der horst G, Nijhoff S, de Bont H, Baranski Z, Jenster G, Van de water B, Van der Pluijm G,Snaar-Jagalska BE, Danen EH. MST1R supports prostate cancer invasion, dissemination, and formation of bone metastases. *Submitted*

CURRICULUM VITAE

Veerander PS Ghotra was born on December 12,1979 in Mukerian, India. After completing the pre-university education, he started his bachelor studies in medicine and surgery at the government medical college Patiala (India) in 1998, from which he graduated in 2004. In 2006 he began a research master in oncology offered by the Vrije University in Amsterdam. This master program exposed him to the exciting challenges in the field of oncological research. To gain further expertise in this area, he started his PhD studies in the division of toxicology in 2008 under supervision of Dr. Erik Danen. The aim of his project described in this thesis, was to develop novel models to study tumor progression and to identify novel candidate metastasis genes that could serve as novel potential drug targets for treatment of prostate cancer. Veerander is highly interested in understanding the dynamics of the prostate cancer metastatic cascade, ranging from local invasion to metastatic colonization. Since September 2012, he is doing Master in medicine at the university of Maastricht. His ambition is to become an expert in the field of urological oncology, and to translate scientific knowledge for the benefit of prostate cancer patients.