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# Interplay between cancer and thrombosis; identification of key factors

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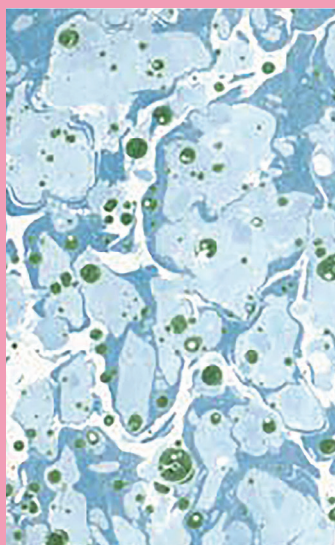
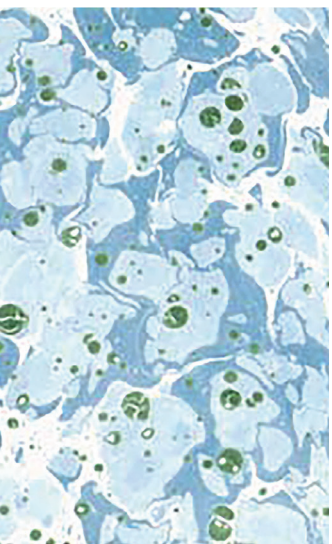


# Publications
# Dankwoord
# Curriculum Vitae



# PUBLICATIONS

**Ünlü B**, Kocatürk B, Rondon AMdaR, Swier N, van den Akker RFP, Blok EJ, Ruf W, Kuppen PJK, Versteeg HH. Integrin regulation by Tissue Factor promotes cancer stemness and metastasis in breast cancer. ***Manuscript submitted for publication.***

Kroone C*, Tieken C*, Kocatürk B*, Paauwe M, Blok EJ, **Ünlü B**, van den Berg YW, Kapteijn MY, Swier N, Duits DEM, Lin Y, Oostenbrink LVE, Mosnier LO, van Vlijmen BJM, Ruf W, Kuppen PJK, Buijs JT, Versteeg HH. Tumor-derived Factor VII associates with survival and regulates tumor progression in cancer. ***Manuscript submitted for publication.*** (* denotes equal contribution)

**Ünlü B**, Versteeg HH. Cancer-associated thrombosis: The search for the holy grail continues. ***Res Pract Thromb Haemost*** 2018; 2(4):622-629.

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**Ünlü B**, Bogdanov VY, Versteeg HH. Interplay between alternatively spliced Tissue Factor and full-length Tissue Factor in modulating coagulant activity of endothelial cells. ***Thromb Res*** 2017; Aug; 156: 1-7

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**Ünlü B**, Versteeg HH. Effects of tumor-expressed coagulation factors on cancer progression and venous thrombosis: is there a key factor? ***Thromb Res*** 2014; May; 133 Suppl 2: S76-84.

Van Leeuwen JS, **Ünlü B**, Vermeulen NP, Vos JC. Differential involvement of mitochondrial dysfunction, cytochrome P450 activity, and active transport in the toxicity of structurally related NSAIDs. ***Toxicol*** In Vitro 2012; Mar; 26(2): 197-205.

# DANKWOORD

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# CURRICULUM VITAE

Betül Ünlü was born on the 20th of January 1986 in Zaanstad, the Netherlands. In 2006 she finished secondary education at the Bertrand Russell College in Krommenie. Subsequently she started a Bachelor in Chemistry at the VU University Amsterdam. During her Bachelor-internship she has studied the toxicity of several nonsteroidal anti-inflammatory drugs, using yeast as a model, under the supervision of dr. Jolanda van Leeuwen and dr. Chris Vos. This project led to her first publication as a co-author in the journal ***Toxicology in vitro***.

Between 2010 and 2013 Betül pursued a Master in Biomolecular Sciences at the VU University Amsterdam, specifically the tracks Biological Chemistry & Molecular Cell Biology. Her first internship, in the group of prof. dr. Martine J. Smit, was on the elucidation of the CXCR4 and CXCR7 signaling axis in cancer, under the supervision of dr. Azra Mujić-Delić. In 2012 she started with an external internship in the laboratory of prof. dr. Henri H. Versteeg at the Leiden University Medical Center, on the role of Tissue Factor and ectopic coagulation factor VIIa in breast cancer, with dr. Chris Tieken as a supervisor.

After this second internship she did not leave the group, but became a group member of prof. dr. Henri H. Versteeg in the Tissue Factor-team and worked as a PhD-student in the department of Internal Medicine, division of Thrombosis and Hemostasis. During this PhD program, she has spent several months in the laboratory of prof. dr. Wolfram Ruf at the Scripps Research Institute (La Jolla, California, USA), in order to learn new techniques and work with specific mouse strains. In addition, Betül has received grants from the Dutch Cancer Society and 'Stichting de Drie Lichten' to support her research in the USA. Furthermore, work described in this thesis has been presented at several national and international congresses, where she also was awarded with travel grants from 'Stichting Stimulering Biochemie The Netherlands', a Young Investigator Award by the International Society on Thrombosis and Haemostasis, best abstract and best oral presentation award by the Dutch Society on Thrombosis and Hemostasis.

Since the 1st of July 2018, Betül works as a post doc in the research group of prof. dr. Jolanda van Leeuwen at the University of Lausanne in Switzerland. Here, she will map molecular mechanisms of genetic tumor suppressor interactions in cancer cells. This research will increase the understanding of the complex networks of genetic interactions underlying tumor progression.