

Tumor Cell Biology meeting 2015

Hotel 'de Werelt' Lunteren

Tuesday November 3rd, 2015

09.00 Registration and coffee

10.00 **opening** *Frank v. Leeuwen*

Session I: Tumor-immunology and -microenvironment

Chairs: Marjolein van Egmond and Anne-Marie Cleton-Jansen

10.15 Cisplatin enhances the response to immune checkpoint inhibitors in a mouse model for *de novo* invasive mammary tumorigenesis

K. Kersten, The Netherlands Cancer Institute, Amsterdam

10.30 T cell response facilitates cerebral metastasis of breast cancer

D.A. Mustafa, Erasmus MC, Rotterdam

10.45 The T-cell/CLL/macrophage triad shapes a supportive tumor microenvironment in CLL

M.H.A. van Attekum, AMC, Amsterdam

11.00 Pre-operative monoclonal antibody therapy prevents the development of liver metastasis, which are induced by colorectal carcinoma resection

M. van Egmond, VUMC, Amsterdam

11.15 Coffee/Tea

Session II: Oncogenesis

Chairs: Ruud Delwel and Paul Coffey

- 11.45 Distribution of GNAQ and GNA11 mutation signatures in Uveal Melanoma points to a light dependent mutation mechanism
M.J. de Lange, LUMC, Leiden
- 12.00 Control of normal and cancer stem cell metabolism by PI3K/AKT/FOXO signalling
B.M.T. Burgering, UMCU, Utrecht
- 12.15 A tissue-specific transcriptional element for C/EBPA is required for HSC maintenance and neutrophil development
R. Avellino, Erasmus MC, Rotterdam
- 12.30 Tumor suppressor genes *BTG1* and *IKZF1* cooperate in leukemia development and glucocorticoid therapy resistance
R. Marke, Radboudumc, Nijmegen
- 12.45 Protection against development of B cell lymphoma by tetraspanin CD37
C.M. de Winde, Radboudumc, Nijmegen
- 13.00 lunch (14.00 hr: meeting project leaders)**
- 14.30 **Invited lecture**
'Niche business: Plasticity of cancer invasion, metastasis and therapy Response'
Peter Friedl, Radboudumc, Nijmegen + MD Anderson Cancer Center, Houston
- 15.15 **BIOKE presentation**
Edward Verwayen

Session III: Therapy(-resistance) and (pre-)clinical studies

Chairs: Jules Meijerink and Conny Jimenez

15.30 cSRC-mediated canonical Wnt activation in E-cadherin and HER2 positive and PR/ER negative mammary carcinoma cell lines

J.A. Mol, Utrecht University, Utrecht

15.45 Targeted therapy of precancerous fields in the head and neck mucosa

D.V. de Boer, VUMC, Amsterdam

16.00 CD44v/cMet signaling has an instrumental role in intestinal tumorigenesis

S.P.J. Joosten, AMC, Amsterdam

16.15 Coffee/Tea

16.45 CRISPR/Cas9 based kinome screen identifies novel targets that determine sensitivity for Asparaginase therapy in Acute Lymphoblastic Leukemia

M. Butler, Radboudumc, Nijmegen

17.00 Novel druggable targets in EGF receptor-mediated breast cancer antiestrogen resistance

L. Wester, LUMC, Leiden

17.15 Neuroblastoma is a bi-phasic tumor with classic neuro-epithelial cells and chemo-resistant mesenchymal cells

J. van Nes, AMC, Amsterdam

- 17.30 Identification of steroid resistance mechanisms in T-cell acute lymphoid leukemia by integrated genomic approaches
J.P.P. Meijerink, Erasmus MC, Rotterdam
- 17.45 Functional analysis of variants of uncertain significance in *BRCA2*
R. Mesman, LUMC, Leiden
- 18.00 Diner**
- 20.00 **Keynote Lecture**

'Tumour blood vessels: New roles for old roads'

Kairbaan Hodivala-Dilke

Barts Cancer Institute, Queen Mary University of London
- 21.00 **Disco** (sponsored by Bioke) and drinks

Wednesday November 4th, 2015

Session IV: Gene regulation and genome organization

Chairs: Roland Kuiper and Geert Kops

- 09.00 The T-cell Acute Lymphoblastic Leukemia oncogene MEF2C collaborates with important transcriptional regulators for malignant transformation of early thymic progenitor cells
E. Vroegindeweyj, Erasmus MC, Rotterdam
- 09.15 Kaiso represses gene transcription via a CpG-specific consensus site
M. Tenhagen, UMCU, Utrecht
- 09.30 Inactivation of *SDH* and *FH* cause loss of 5hmC and increased H3K9me3 in paraganglioma/pheochromocytoma and smooth muscle tumors
A.S. Hoekstra, LUMC, Leiden
- 09.45 Radiosensitization through autophagy-inhibition; fact or artefact?
W.H.M. Hoevenaar, UMCU, Utrecht
- 10.00 Defective sister chromatid cohesion is synthetically lethal with impaired APC/C function
J. de Lange, VUMC, Amsterdam
- 10.15 Deleterious germline *BLM* mutations and the risk for early-onset colorectal cancer
R.M. de Voer, Radboudumc, Nijmegen
- 10.30 Coffee/Tea**

Session V: Invasion and metastasis

Chairs: Kees Jalink and Patrick Derksen

- 11.00 Autocrine leader cell induction and collective invasion through connexin-43 hemichannels and ADORA1
A.A. Khalil, University of Wuerzburg, Germany
- 11.15 Identification of molecular mechanisms responsible for neuroblastoma cell plasticity and therapy resistance
J. Middelbeek, Radboudumc, Nijmegen
- 11.30 MiR-520f reverses the EMT phenotype and inhibits metastasis
J.G.M. van Kampen, Radboudumc, Nijmegen
- 11.45 Growth factor receptor signaling maintains an epithelial phenotype in esophageal cancer
E.A. Ebbing, AMC, Amsterdam
- 12.00 **KWF presentatie:**
'Introducing KWF funding principles 2016'
Wies van Roosmalen, KWF
- 12.15 Lunch**
- 13.15 **Invited Lecture**
'Genetic dissection of breast cancer development, therapy response and resistance in advanced mouse models'
Jos Jonkers, NKI

Session VI: DNA damage, repair and apoptosis

Chairs: Ruud Brakenhoff and Boudewijn Burgering

- 14.00 Expression of RAD51^{A293T} leads to defective strand exchange activity in a dominant manner and is associated with a new FA subtype, "FA-R"
N. Ameziane, VUMC, Amsterdam
- 14.15 Correction of the Fanconi anemia complementation group F gene by CRISPR/Cas9 technology
H.J. van de Vrugt, The Netherlands Cancer Institute, Amsterdam
- 14.30 Coffee/Tea**
- 15.00 FOXO maintains genomic stability by regulating histone acetylation around DSBs
S. van Doeselaar, UMCU, Utrecht
- 15.15 Genetic screens to identify pathogenic gene variants in the common cancer predisposition Lynch syndrome
M. Drost, LUMC, Leiden
- 15.30 Targeted Apoptosis of Senescent Cells (TASC) against chemotoxicity and therapy resistance
P.L.J. de Keizer, Erasmus MC, Rotterdam
- 15.45 **Best presentation awards and closure**