

# 26<sup>th</sup> Cancer Biology meeting 2017

Hotel 'de Werelt' Lunteren

**Tuesday October 31<sup>st</sup>, 2017**

**09.00 Registration and coffee**

**10.00 Opening:** *Marcel Spaargaren, Chair*

## **Session I: Oncogenesis**

*Chairs: Annemarie Cleton-Jansen, Conny Jimenez*

**10.15 C/EBP $\beta$ -LIP regulates the let-7/Lin28b circuit to control cellular metabolism**

*Tobias Ackermann, ERIBA, UMC Groningen and Leibniz Institute for Age Research, Fritz Lipmann Institute, Jena, Germany*

**10.30 MET signaling mediates intestinal crypt-villus development, regeneration, and adenoma formation and is promoted by stem cell CD44 Isoforms**

*Sander Joosten, AMC-UvA, Amsterdam*

**10.45 Integrated RNAi screening and RNAseq analysis to uncover splicing programs that control breast cancer progression**

*Esmee Koedoot, LACDR, Leiden University*

**11.00 Atypical E2F repressor proteins as a novel therapeutic strategy to suppress liver cancer**  
*Eva Moreno, UU, Veterinary Medicine, Utrecht*

**11.15 Coffee/Tea**

**Session I: Oncogenesis (*continued*)**  
*Chairs: Alain de Bruin and Cor Calkhoven*

**11.45 Differential oncogenic capacity of gene fusions in colon cancer**  
*Christina Stangl, UMC Utrecht and NKI-AvL, Amsterdam*

**12.00 Targeting *microRNA-139*, a novel tumor suppressor in acute myeloid leukemia**  
*Christiaan Stavast, Erasmus MC, Rotterdam*

**12.15 Tumor cells that phenocopy migratory behavior *in vivo* transport signaling networks through EVs**  
*Sander Steenbeek, Hubercht Institute and UMCU*

**12.30 NDRG4 is a specific enteric neuronal protein which attenuates intestinal tumor progression and protects against colitis-induced injury**  
*Nathalie Vaes, GROW, Maastricht UMC*

**12.45 The long noncoding RNA KTN1-AS1, an important downstream effector of MYC, regulates B-cell lymphoma proliferation and apoptosis**  
*M Winkle, UMC Groningen*

**13.00 Lunch (14.00 hr: meeting of project leaders)**

14.30 **Invited lecture**  
***Targeting Ras signaling in personalized cancer treatment***  
**Hans Bos, UMC Utrecht, CMM, Molecular Cancer Research**

**Session II: DNA damage and repair**

*Chair: Peter de Keizer*

15.15 **Loss of p53 suppresses replication-stress-induced DNA breakage in G1 checkpoint deficient cells**  
*Bente Benedict, NKI-AvL, Amsterdam*

15.30 **Senescent cells in cancer therapy: friends or foe?**  
*Marco Demaria, ERIBA, UMC Groningen*

15.45 **Prognostic benefit of *POLE* exonuclease domain mutations in endometrial cancer cannot be explained by increased sensitivity to adjuvant treatment strategies**  
*Mark Drost, Leiden University Medical Center*

16.00 **Coffee/Tea**

**Session II: DNA damage and repair (*continued*)**

*Chairs: Susanne Lens and Marcel van Vugt*

16.30 **DNA polymerase beta suppresses mutagenic non-canonical mismatch repair of AID-instigated lesions at immunoglobulin and non-immunoglobulin loci**  
*Jeroen Guikema, AMC-UvA, (LYMMCARE), Amsterdam*

16.45 **Error correction by Aurora B does not require its confinement to the inner centromere**  
*Michael Hadders, UMC Utrecht, CMM*

- 17.00     **Chk1 inhibition as a therapeutic approach  
in head and neck squamous cell carcinoma**  
*Anne van Harten, VU University Medical Center,  
Amsterdam*
- 17.15     **Cohesion weakness: a unique vulnerability of cancer cells**  
*Job de Lange, Cancer Center Amsterdam and VU University  
Medical Centre, Amsterdam*
- 17.30     **Distinct mutational processes causing hypermutation  
in relapsed pediatric acute lymphoblastic leukemia**  
*Esmé Waanders, Princess Máxima Center for Pediatric  
Oncology, Utrecht*
- 17.45     **KWF presentation**  
*Wies van Roosmalen*
- 18.00     **Dinner**
- 20.00     **Keynote Lecture**  
  
***Advancing Precision Oncology by Computational  
Modelling***  
  
**Walter Kolch**  
*Systems Biology Ireland & Conway Institute, University  
College Dublin, Ireland*
- 21.00     **Posters and Laptops**
- 22.00     **Disco** (sponsored by BLOKÉ) and drinks

## Wednesday November 1<sup>st</sup>, 2017

### Session III: Target discovery and drug-resistance

*Chairs: Frank van Leeuwen and Bauke Ylstra*

09.00 **Dissecting the role of individual Bcl-2 members in response and resistance to Ibrutinib or Venetoclax in CLL**

*Fabio Brocco, AMC-UvA, Amsterdam*

09.15 **Specific targeting of acute myeloid leukemia stem cells by Insulin-like growth factor binding protein 7**

*Noortje van Gils, VU University Medical Center, Amsterdam*

09.30 **Cancer drug addiction is relayed by an Erk2-dependent phenotype switch**

*Xiangjun Kong, NKI-AvL, Amsterdam*

09.45 **Loss of *IKZF1* confers resistance towards pyrimidine analogues in BCP-ALL**

*René Marke, Radboudumc, Nijmegen*

10.00 **Effective preclinical treatment of Diffuse Intrinsic Pontine Glioma by MELK inhibition**

*Michael Meel, Cancer Center Amsterdam, VU University Medical Center, Amsterdam*

10.15 **The use of organoids to study platinum resistance in high grade serous ovarian cancer**

*Chris de Witte, UMC Utrecht, CMM, Utrecht*

10.30 **Coffee/Tea**

## Session IV: Microenvironment

*Chairs: Paul Coffey and Annemiek van Spriell*

- 11.00     **Prostate cancer secreted microRNAs influence early steps in bone metastasis via monocytes**  
*Irene Bijnsdorp, VUmc-Cancer Center Amsterdam, VU University Medical Center*
- 11.15     **Immunophenotyping of young-onset colorectal cancer by multispectral fluorescence imaging**  
*Marieke Ijsselsteijn, Leiden University Medical Centre, Leiden*
- 11.30     **Stromal derived versus tumor intrinsic gene expression signature in melanoma**  
*Oscar Krijgsman, NKI-AvL, Amsterdam*
- 11.45     **The role of cell competition in tumor growth**  
*Saksia Suijkerbuijk, Hubrecht Institute (KNAW) Utrecht, University of Cambridge, NKI-AvL, Amsterdam*
- 12.00     **BIOKÉ presentation**
- 12.15     **Lunch**
- 13.15     **Invited Lecture**  
***The overwhelming impact of DNA damage on sustaining health***  
*Jan Hoeijmakers, Erasmus MC, Rotterdam*

## **Session V: Stem cells and clonal dynamics**

*Chairs: Roland Kuiper and Linda Smit*

- 14.00      **Clonal selection and asymmetric distribution of patient-derived leukemia in human xenografts revealed by cellular barcoding**  
*Mirjam Belderbos, ERIBA, University of Groningen, Princess Máxima Center for Pediatric Oncology, Utrecht*
- 14.15      **Modelling cancer in human organoid cultures**  
*Jarno Drost, Princess Máxima Center for Pediatric Oncology*
- 14.30      **Coffee/Tea**

## **Session V: Stem cells and clonal dynamics (*continued*)**

- 15.00      **Clonal dynamics of colon carcinoma progression**  
*Lennart Kester, Hubrecht Institute (KNAW), Utrecht*
- 15.15      **Spatiotemporal regulation of tumor growth and intratumoral heterogeneity in colon cancer**  
*Kristiaan Lenos, LEXOR, AMC-UvA, Amsterdam*
- 15.30      **Metabolic control of stem cells in cancer**  
*M.J. Rodriguez Colman, UMC Utrecht, CMM, Molecular Cancer Research*
- 15.45      **Best presentation awards and closure**

