

# 27<sup>th</sup> KWF Cancer Biology meeting 2018

Hotel 'de Werelt' Lunteren

Tuesday November 20<sup>th</sup>, 2018

09.00      **Registration and coffee**

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

**Session I: Oncogenesis**

*Chairs: Paul Coffey, Marc Vooijs*

10.15      **The AKT-FOXO axis and glucose metabolism as therapeutic targets in Multiple Myeloma**  
*Timon Bloedjes, LYMMCARE, CCA, Amsterdam UMC (AMC/UvA)*

10.30      **Mechanical control of epithelial homeostasis through force-induced signaling by E-cadherin adhesions**  
*Willem-Jan Pannekoek, CMM, UMC Utrecht*

10.45      **In vivo study of breast cancer cellular dormancy at the molecular level**  
*Chloé Prunier, LUMC, Leiden University, Onco Institute*

11.00      **The Mutant Adhesome and the progression of Lobular Breast Cancer**  
*Max Rätze, UMC Utrecht*

11.15      **Coffee/Tea**

**Session I: Oncogenesis (continued)**

*Chairs: Linda Smit and Michiel Pegtel*

- 11.45**     **The developmental transcription factor SOX4 is required for maintaining stem cell identity in mammary tumors**  
*Guy Roukens, UMC Utrecht*
- 12.00**     **Genome-wide CRISPR-Cas9 mediated identification of gene targets that induce growth arrest, with or without a senescence-associated secretory phenotype**  
*Arnout Schepers, NKI-AvL, Amsterdam*
- 12.15**     **Transcription factors ATF6 and XBP1s of the Unfolded Protein Response reduce colorectal cancer cell proliferation and stemness through interaction with PERK**  
*Claudia Spaan, CCA, Amsterdam UMC (AMC/UvA)*
- 12.30**     **BRCA2 deficiency instigates cGAS-mediated inflammatory signaling and confers sensitivity to Tumor Necrosis Factor-alpha-mediated cytotoxicity**  
*Francien Talens, UMC Groningen*
- 12.45**     **Towards understanding molecular and pre-clinical aspects of loss of protein homeostasis in cancer**  
*Bram van Raam, CMM, UMC Utrecht*
- 13.00**     **Lunch (at 14.00 hr: meeting project leaders)**
- 14.30**     **Invited lecture**  
***Connecting genes to protein phenotypes***  
**Thijn Brummelkamp, NKI-AvL, Amsterdam**

## **Session II: Tumor microenvironment**

*Chairs: Patrick Derksen and Victor Thijssen*

- 15.15      **WNT signalling antagonizes paracrine senescence in human stromal cells**  
*Johannes Lehmann, UMC Utrecht and Erasmus MC Rotterdam*
- 15.30      **Heparan sulfate proteoglycans: key moderators of the interaction of multiple myeloma cells with the bone marrow niche**  
*Zemin Ren, LYMMCARE, CCA, Amsterdam UMC (AMC/UvA)*
- 15.45      **Exploring the potential of immune cell targeting in hepatocellular carcinoma**  
*Serena Venga, NKI-AvL, Amsterdam*
- 16.00      **Coffee/Tea**

## **Session III: Target discovery & Drug resistance**

*Chairs: Frank van Leeuwen and Esther Hulleman*

- 16.30      **Aberrant CD37 expression in B cell lymphoma: molecular mechanism and implications for therapy**  
*Suraya Elfrink, Radboudumc, Nijmegen*
- 16.45      **Differential 3D reprogramming of breast cancer subtypes and implications for drug screening**  
*Esmee Koedoot, LACDR, Leiden University*

- 17.00     **Systematic identification of silencers in the human genome**  
*Baoxu Pang, LUMC, Leiden, and Stanford University, Stanford, California, USA*
- 17.15     **Glucocorticoid Resistance in IKZF1-deleted BCP-ALL: It Is PTEN Again**  
*Laurens Van der Meer, PMC, Utrecht*
- 17.30     **CDK4/6 inhibitor Abemaciclib Induces Cellular Senescence in Normal Cells Without Deleterious Associated Secretory Phenotypes**  
*Boshi Wang, ERIBA, UMC Groningen*
- 17.45     **KWF presentation**  
*Nora Liu*
- 18.00     **Dinner**
- 20.00     **Keynote Lecture**  
  
*Immune evasion and metastasis in colorectal cancer*  
  
**Eduard Batlle**  
*IRB Barcelona and ICREA. Barcelona Institute of Science and Technology, Spain*
- 21.00     **Posters and Laptops**
- 22.00     **Disco** (sponsored by BLOKÉ) and drinks

**Wednesday November 21<sup>st</sup>, 2018**

**Session IV: Chromosome instability & DNA damage**

*Chairs: Marcel van Vugt and Niels de Wind*

**09.00 Inner Centromere Integrity and Chromosomal INstability (CIN) in Cancer**

*Susanne Lens, CMM, UMC Utrecht*

**09.15 Celastrol-induced degradation of FANCD2 sensitizes pediatric high-grade glioma to DNA-cross-linking agent carboplatin**

*Dennis Metselaar, CCA, Amsterdam UMC (VUmc) and PMC, Utrecht*

**09.30 Functional genomics to identify vulnerabilities in Fanconi anemia Head and Neck cancers**

*Govind Pai, CCA, Amsterdam UMC (VUmc)*

**09.45 DNA damage sensitivity of SWI/SNF-deficient cells depends on TFIIH subunit p62/GTF2H1**

*Cristina Ribeiro-Silva, OncoCode Institute, Erasmus MC, Rotterdam*

**10.00 Post-translesion synthesis DNA repair, responses to endogenous and exogenous DNA damage and gastrointestinal cancer development**

*Anastasia Tsaalbi-Shtylik, LUMC, Leiden*

**10.15 Replication-coupled gene editing in mouse embryonic stem cells enables biallelic targeting of DNA mismatch repair genes**

*Thomas van Ravesteyn, NKI-AvL, Amsterdam*

**10.30 Coffee/Tea**

**Session V: Tumor immunology**

*Chairs: Robbert Spaapen and Annemiek van Spriël*

**11.00 The glycosphingolipid repertoire orchestrates HLA class I-mediated immune responses**

*Antonius de Waard, Sanquin Research, Amsterdam and Amsterdam UMC (UvA)*

**11.15 Generation of tumor-reactive T cells by co-culture of peripheral blood lymphocytes and tumor organoids**

*Krijn Dijkstra, NKI-AvL, Amsterdam*

**11.30 Inactivation of histone demethylase KDM5 enhances cytotoxic T-cell mediated tumor killing**

*Tushar Tomar, NKI-AvL, Amsterdam, Onco Institute*

**11.45 Radiotherapy and cisplatin increase immunotherapy efficacy by enabling local and systemic intratumoral T-cell activity**

*Inge Verbrugge, NKI-AvL, Amsterdam*

**12.00 BIOKÉ presentation:**

***Janet Bewser***

Antibody reproducibility and platforms to advance your cancer research

**12.15 Lunch**

- 13.15**      **Invited Lecture**  
***Cell division, differentiation and tumor formation;  
insights from C. elegans***  
**Sander van den Heuvel, Utrecht University, Utrecht**

**Session VI: Diagnostic & Biomarkers**

*Chairs: Renske Steenbergen and Sheila Krishnadath*

- 14.00**      **Frequency and clinical relevance of minor subclonal mutations in relapse-associated genes at primary diagnosis of pediatric B-cell precursor acute lymphoblastic leukemia**  
*Željko Antić, PMC, Utrecht*

- 14.15**      **Identification of three distinct biological subtypes in esophageal and junctional adenocarcinoma by RNA sequencing**  
*Sanne Hoefnagel, CEMM, CCA, Amsterdam UMC (AMC/UvA)*

- 14.30**      **Coffee/Tea**

**Session VI: Diagnostics & Biomarkers (continued)**

- 15.00**      **DNA-based testing on cyst fluid to distinguish between pancreatic cyst types**  
*Frederike Dijk, CCA, Amsterdam UMC (AMC/UvA)*

- 15.15**      **A novel screen for anchorage-independence regulating microRNAs in human cervical cancer cells**  
*Annelieke Jaspers, CCA, Amsterdam UMC (VUmc)*

15.30 **Rapid identification of somatic structural variation as personalized biomarkers for blood-based cancer monitoring**

*Christina Stangl, CMM, UMC Utrecht*

15.45 **Best presentation awards and closure**