27th KWF Cancer Biology meeting 2018
Hotel ‘de Werelt’ Lunteren

Tuesday November 20th, 2018

09.00 Registration and coffee

10.00 Opening Marcel Spaargaren, Chair

Session I: Oncogenesis
Chairs: Paul Coffer, Marc Vooij

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, Oncode 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 BIOKÉ) and drinks
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, Oncode 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 Spriel

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, Oncode 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