26th Cancer Biology meeting 2017

Hotel ‘de Werelt’ Lunteren

Tuesday October 31st, 2017

09.00  Registration and coffee

10.00  Opening: Marcel Spaargaren, Chair

Session I: Oncogenesis

Chairs: Annemarie Cleton-Jansen, Conny Jimenez

10.15  C/EBPβ-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)
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 BIOKÉ) and drinks
## Session III: Target discovery and drug-resistance

*Chairs: Frank van Leeuwen and Bauke Ylstra*

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>09.00</td>
<td>Dissecting the role of individual Bcl-2 members in response and resistance to Ibrutinib or Venetoclax in CLL</td>
<td>Fabio Brocco, AMC-UvA, Amsterdam</td>
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<td>09.15</td>
<td>Specific targeting of acute myeloid leukemia stem cells by Insulin-like growth factor binding protein 7</td>
<td>Noortje van Gils, VU University Medical Center, Amsterdam</td>
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<td>09.30</td>
<td>Cancer drug addiction is relayed by an Erk2-dependent phenotype switch</td>
<td>Xiangjun Kong, NKI-AvL, Amsterdam</td>
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<td>09.45</td>
<td>Loss of <em>IKZF1</em> confers resistance towards pyrimidine analogues in BCP-ALL</td>
<td>René Marke, Radboudumc, Nijmegen</td>
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<td>10.00</td>
<td>Effective preclinical treatment of Diffuse Intrinsic Pontine Glioma by MELK inhibition</td>
<td>Michael Meel, Cancer Center Amsterdam, VU University Medical Center, Amsterdam</td>
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<td>10.15</td>
<td>The use of organoids to study platinum resistance in high grade serous ovarian cancer</td>
<td>Chris de Witte, UMC Utrecht, CMM, Utrecht</td>
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<td>10.30</td>
<td>Coffee/Tea</td>
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Session IV: Microenvironment

*Chairs: Paul Coffer and Annemiek van Spriel*

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**