



Annual Scientific meeting

13 January 2017

Conference Centre De Driehoek, Willemsplantsoen 1c, 3511 LA Utrecht

08.30-09.00 Registration and coffee

09.30-09.35 Opening remarks (session chair: René Bernards)

09:35-09:50 Myrthe Jager (Cuppen): Mutational patterns in adult stem cells of liver disease patients with increased cancer risk

09:50-10:05 Anieta Sieuwerts (Sleijfer): ESR1 mutation detection in liquid biopsies of metastatic breast cancer patients receiving endocrine treatment

10:05-10:20 Michael Uckelmann (Sixma): Site specific H2A DUB screen identifies USP48 as a possible BRCA1 antagonist

10:20-10:35 Lisa van Voorthuijsen (Michiel Vermeulen): A systems biology approach to investigate cell fate switches in intestinal organoids

10:35-10:50 Bram Thijssen (Wessels): Integrative modeling of drug response

10:50- 11:10 Coffee break

session chair: John Martens

11:10-11:25 Ewa Gogola (Jonkers) - Loss of PARG causes PARP inhibitor resistance in BRCA2-deficient mouse mammary tumors

11:25-11:40 Lucas Bruurs (Bos): The interacting phosphatases PTEN and PTPL1 ensure apical membrane clustering

11:40-11:55 Dora Hammerl (Martens): Cracking up the immune system in triple negative breast cancer

11:55-12.10 Emilie van Brummelen (Schellens): Preliminary results of MEK and pan-HER inhibition in patients with KRAS mutated non-small-cell lung cancer (NSCLC), colorectal cancer (CRC) and pancreatic cancer (PC)

12:10-12:25 Imke Mandemaker (Wim Vermeulen): Replication stress induced global decrease of histone acetylation reveals a new control mechanism regulating histone levels by degradation

12:25-13:30 Lunch

session chair: Titia Sixma

- 13:30-13:45 Salo Ooft (Voest): TBA
- 13:45-14:00 Alex Zelensky (Kanaar): Genetic Dependencies of Random Integration
- 14:00-14:15 Joppe Nieuwenhuis (Brummelkamp): Genetic regulators of protein states studied on single cell level using haploid genetics
- 14:15-14:30 Mark de Gooijer (Bernards): Identification of a druggable pathway controlling glioblastoma invasiveness
- 14:30-14:45 Arianna Fumagalli (Van Rheenen): Genetic dissection of colorectal cancer progression by orthotopic transplantation of engineered cancer organoids
- 14:45-15:00 Simone Lemeer (Heck): Multi-omics analysis reveals extensive phosphorylation mediated reprogramming of glycolysis in lapatinib resistance
- 15:00-15:20 *Tea Break*

session chair: Boudewijn Burgering

- 15:20-15:35 Mar Soto (René Medema): Tolerance to whole chromosome versus partial aneuploidies is determined by their differential effect on genomic stability
- 15:35-15:50 Boudewijn Burgering: Metabolic interplay in the intestinal crypt determines stem cell function
- 15:50-16:05 Cornelia Veelken (Friedl): Dissecting invasion-associated resistance using spheroid models
- 16:05-16.20 Ana Bolhaqueiro (Kops): Chromosomal instability in colorectal cancer organoids
- 16:20-16:35 Oded Kopper (Clevers): Organoids representing human ovarian cancer
- 16:45 Drinks**

AIO's and **Postdocs** of the participating groups are particularly invited to join.

The capacity of the room is limited to 120 participants, so please register online on the CGC.nl website www.cancergenomics.nl