The workshop will focus on all aspects concerning cancer genetics and cancer cytogenetics in a diagnostic setting. Technical aspects such as conventional karyotyping, methods and principles of fluorescence in situ hybridization (FISH) and new methods in cytogenetics such as micro-array genomic profiling, MLPA and next generation sequencing will be discussed. During the workshop interpretation of cytogenetic and genetic data in relation with cancer (onco-hematology and solid tumors) and predisposition to cancer will be presented. Practical exercises will be offered with the ISCN 2013 system for chromosome aberrations. Furthermore students will practice with data obtained by karyotyping, FISH and micro-array and translation of these data in a report. Participants will have the opportunity to present their own observations and cytogenetic findings which are difficult to interpret.

**INVITED SPEAKERS**

Torsten Haferlach, Munich  
Anthony Moorman, Newcastle  
Annet Simons, Nijmegen  
Marjolijn Jongmans, Nijmegen  
Julie Schanz, Göttingen  
Jean-Loup Huret, Poitiers

Bauke Ylstra, Amsterdam  
Philip Kluin, Groningen  
Ros Hastings, Oxford  
Brian Walker, Sutton  
Christine Harrison, Newcastle

Jon Strefford, Southampton  
Ad Geurts van Kessel, Nijmegen  
Jacqueline Schoumans, Lausanne  
Bert van der Reijden, Nijmegen  
David Betts, Dublin

**ORGANISING COMMITTEE**

Marian Stevens-Kroef, Nijmegen  
Eva van den Berg, Groningen  
Berna Beverloo, Rotterdam

**INFORMATION AND REGISTRATION**

The fee of €500,00 includes the drinks, lunches and two dinners during the workshop, all course materials and two conference dinners. The organising committee will offer three grants, which includes the registration fee but excludes travel expenses and accommodation. The grants will be awarded to participants who are most in need of financial support.

Further information and registration:  
www.paoheyendael.nl/cancergenetics2016
Program

March 30, 2016
9:00 Welcome
9:10 Chronic Myelogenous Leukemia Ad Geurts van Kessel
10:00 Karyotyping Ros Hastings
10:50 BREAK
11:10 FISH Berna Beverloo
12:00 Array based genomic profiling Jacqueline Schoumans
12:50 LUNCH
13:50 Molecular diagnostics (MLPA, QPCR and NGS) Bert van der Reijden
14:40 Cytogenetic nomenclature: ISCN 2013/2015 Annet Simons
15:30 BREAK
15:50 Practical exercises with ISCN and case interpretation
17:30 End and Conference dinner

March 31, 2016
9:00 Quality Assessment Ros Hastings
9:50 Acute Lymphoblastic Leukemia Anthony Moorman
10:40 BREAK
11:00 Chronic Lymphocytic Lymphoma Jon Strefford
11:50 Plasma Cell Neoplasms Brian Walker
12:40 LUNCH
13:40 Myelodysplastic syndromes Julie Schanz
14:30 Acute Myeloid Leukemia Christine Harrison
15:20 BREAK
15:40 Practical exercises in data analysis
16:40 Practical exercises in data analysis
17:40 End and Conference dinner

April 1, 2016
9:00 New Technologies in tumor genetics (NGS) Torsten Haferlach
9:50 Integration of diagnostic analysis Torsten Haferlach
10:40 BREAK
11:00 Lymphoma Philip Kluin
11:50 Solid tumor I (karyotyping and molecular cytogenetics) David Betts
12:40 LUNCH
13:40 Solid tumor II (molecular) Bauke Ylstra
14:30 Genetic predisposition of cancer Marjolijn Jongmans
15:20 BREAK
15:40 Cases brought by participants
16:30 End