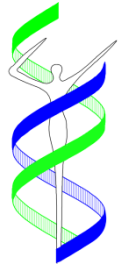


# 30<sup>th</sup> MGC-SYMPOSIUM

Thursday, 19 May, 2022

Fletcher hotel, Leiden



## Program

- 8.45 Coffee and Registration
- 9.15 Opening: Silvere van der Maarel  
*Chairman: Sjaak Neefjes*
- 9.20 **Anna Alemany** (Anatomy and Embryology, LUMC) "Tracing lineages and signals using CRISPR/Cas9"
- 9.40 **Sanne Venneker** (Pathology, LUMC) "Targeting vulnerabilities caused by the IDH mutation in chondrosarcoma: The model matters"
- 10.00 **Jeffrey van Haren** (Cell Biology, Erasmus MC) "Dissecting microtubule behaviour by an optogenetic approach"
- 10.20 **Baoxu Pang** (Cell and Chemical Biology, LUMC) "Systematic identification of silencer elements in the human genome"
- 10.40 **Niels Galjart** "How to organize a qualification system for online courses"
- 10.50 Coffee/tea  
*Chairman: Roland Kanaar*
- 11.20 **Vivek Tripathi** (Molecular Genetics, Erasmus MC) "Modulation of replication stress response by E3 SUMO ligase NSMCE2 drives survival in BRCA2 deficient tumors"
- 11.40 **Rick Boonen** (Human Genetics, LUMC) "High-throughput functional interpretation of PALB2 missense variants and their association with breast cancer risk"
- 12.00 **Vera van der Noord** (LACDR-Drug Discovery and Safety, UL) "Tyrosine kinase inhibitors sensitize triple-negative breast cancer to CDK12/13 inhibition by blocking ABCG2 drug efflux"
- 12.20 **Alba Muniesa-Vargas** (Molecular Genetics, Erasmus MC) "Persistent TFIIH binding to DNA damage impairs in vivo neuron functionality"
- 12.40 **Lunch**  
*Chairman: Silvere van der Maarel and Niels Galjart*
- 13.50 **Dana Vergoossen** (Human Genetics, LUMC) "Functional monovalency amplifies the pathogenicity of anti-MuSK IgG4 in myasthenia gravis"
- 14.10 **Lieke Koornneef** (Developmental Biology, Erasmus MC) "Multi-color super-resolution (dSTORM) microscopy application to unravel spatial organization of recombinases at sites of DNA repair in mouse meiosis"
- 14.30 **Elena Perenthaler** (Clinical Genetics, Erasmus MC) "Dissecting the role of YY1 in determining enhancer activity and gene expression"
- 14.50 **Niels van den Berg** (Molecular Epidemiology, LUMC) "Longevity genetics: from quantitative trait definition to gene discovery"
- 15.10 **Raquel Crespo Galvan** (Biochemistry, Erasmus MC) "Pharmacological de-repression of HIV-1 transcription as a strategy for HIV-1 cure"
- 15.30 Coffee/tea  
*Chairman: Silvere van der Maarel*
- 16.00 **MGC Symposium Lecture**  
**Maria Yazdanbakhsh** (Parasitology, LUMC) "The immunological footprints generated by different environmental factors"
- 17.00 Drinks and snacks

# 29<sup>th</sup> MGC-SYMPOSIUM

Thursday, 12 September, 2019

KINO Rotterdam

## Program

8.45 Coffee and Registration

9.15 Opening: Hans Tanke

*Chairman: Niels Galjart and Hans Tanke*

9.20 **Chirantani Mukherjee** (Molecular Genetics, Erasmus MC) "RIF1 promotes replication fork protection and prevents genome instability"

9.40 **Yana van der Weegen** (Human Genetics, LUMC) "The sequential and cooperative assembly of CSB, CSA, and UVSSA leads to the recruitment of the TFIIH complex to DNA damage-stalled RNA polymerase II"

10.00 **Valentina Casa** (Cell Biology, Erasmus MC) "Redundant and nonredundant roles of the cohesin-ring STAG subunits in chromatin looping and transcription control"

10.20 **Jiang Chang** (Molecular Genetics, Erasmus MC) "Frequent transcription stalling in metazoan aging"

10.40 **Marije Niemeijer** (LACDR, UL) "High throughput transcriptomics of primary human hepatocyte inter-individual variance in adaptive stress response activation"

11.00 Coffee/tea

*Chairman: Joost Gribnau and Bob van de Water*

11.30 **Best lecture of the MGC PhD Workshop 2019**

**Rodrigo Canibano Fraile** (Clinical Genetics/Pediatrics, Erasmus MC) "Characterization of regenerative adult skeletal muscle cells expanded ex vivo"

11.50 **Ayestha Sijm** (Biochemistry, Erasmus MC) "USP7 links metabolism, epigenetics and tumor suppression"

12.10 **Stephanie Schubert** (Pathology, LUMC) "Germline mutation affecting p53 $\beta$  isoforms predisposes to multiple primary cancers"

12.30 **Meindert Lamers** (Cell and Chemical Biology, LUMC) "Structural features of high fidelity DNA replication"

12.50 Lunch

*Chairman: Roland Kanaar and Silvere van der Maarel*

14.00 **Maartje Huijbers** (Human Genetics – Neurology, LUMC) "The peculiar features of IgG4 and their role in autoimmune diseases"

14.20 **Laura Kuil** (Clinical Genetics, Erasmus MC) "Genetic regulation of macrophage development: from zebrafish to human disease"

14.40 **Evelien Eenjes** (Pediatric Surgery, Erasmus MC) "Levels of Sox2 and Sox21 are important for development and regeneration of airway epithelium"

15.00 **Menno Creyghton** (Developmental Biology, Erasmus MC) "Evolution of the human brain and the emergence of neural disorders"

15.20 **Amy Cochrane** (Anatomy and Embryology, LUMC) "Developing 'Vessel-on-Chip' technology to model vascular physiology and pathophysiology using human induced pluripotent stem cells"

15.40 Coffee/tea

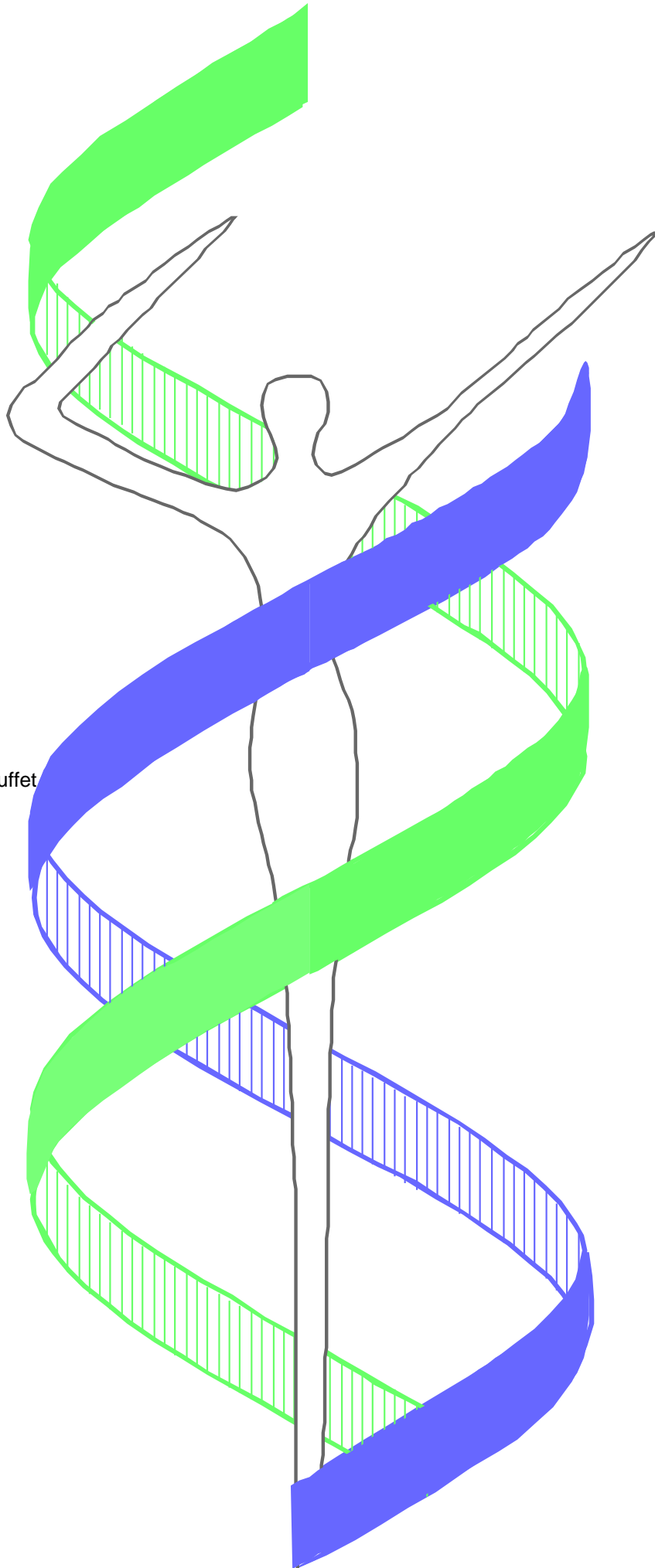
*Chairman: Silvere van der Maarel*

16.10 **MGC Symposium Lecture**

**Isabel Aznarez** (Stoke Therapeutics, Bedford, MA 01730) "Antisense-mediated increase of SCN1A expression using TANGO technology for the treatment of Dravet Syndrome"

17.10 Drinks and snacks

18.00 Dinner Buffet



# 28<sup>th</sup> MGC-SYMPOSIUM

Thursday, 13 September, 2018 - Theater Ins Blau, Leiden

## Program 28<sup>th</sup> MGC Symposium

9:00 Coffee/tea and registration

9.25 opening: **Silvere van der Maarel**

*Chairmen: Silvere van der Maarel and Joost Gribnau*

9.30 **Baoxu Pang** "Systematic identification of silencer elements in the human genome"

*Department of Cell and Chemical Biology, LUMC*

9.50 **Cristina Gontan Pardo** "REX1 is the critical target of RNF12 in imprinted X chromosome inactivation"

*Department of Reproduction and Development, Erasmus MC*

10.10 **Jente van Staalduinen** "Transcriptional dynamics in the 3D space of the nucleus"

*Department of Cell Biology, Erasmus MC*

10.30 **Huan Yang** "Integration of computational modelling and high-content imaging to understand chemical-induced unfolded protein response"

*LACDR - Research Division Drug Discovery and Safety, UL*

10.50 Coffee/tea

*Chairman: Robert Hofstra*

11.10 **Celia Diez Lopez** "Microbiome profiling with next generation sequencing and taxonomy-independent deep learning allow for accurate classification of different human epithelial materials"

*Department of Genetic Identification, Erasmus MC*

11.30 **MGC Symposium Lecture:**

**John van der Oost** "CRISPR-Cas - from RNA to R&D"

*Laboratory of Microbiology, Wageningen University*

12.30 - 14.00 Lunch

*Chairmen: Hans Tanke and Niels Galjart*

14.00 **Marvin van Toorn** "The novel TFIIH interactor HLTf stimulates Nucleotide Excision Repair through regulating removal of excised oligonucleotides"

*Department of Molecular Genetics, Erasmus MC*

14.20 **Sylvie Noordermeer** "SHIELDING against PARP inhibitor resistance in BRCA1-mutated cancers"

*Department of Human Genetics, LUMC*

14.40 **David van IJendoorn** "Modeling translocation driven tumors with human induced Pluripotent Stem Cells (hiPSCs) using CRISPR-Cas9"

*Department of Pathology-Molecular Tumorpathology, LUMC*

15.00 **Chinmoy Saha** "Metal dependent DNase activity of Campylobacter jejuni Cas9 in human cells"

*Department of Medical Microbiology and Infectious Diseases, Erasmus MC*

15.20 **Xu Cao** "Derivation of fully functional macrophage subtypes from hiPSCs under fully defined conditions"

*Department of Anatomy and Embryology, LUMC*

15.40 Coffee/tea

*Chairmen: Roland Kanaar and Bob van de Water*

16.10 **Judith Verhagen** "Tail-anchored protein insertion pathway in vertebrate heart disease"

*Department of Clinical Genetics, Erasmus MC*

16.30 **Najaf Amin** "Rare genetic variants in depression"

*Department of Genetic Epidemiology, Erasmus MC*

## Best lecture of the MGC PhD Workshop 2018

16.50 **Gido Gravesteijn** "Testing blood-based biomarkers in CADASIL: Neurofilament Light-chain correlates with disease severity and survival"

*Departments of Clinical Genetics and Human Genetics, LUMC*

17.10 Drinks and snacks

18.00 Walking dinner



## 27<sup>th</sup> MGC-SYMPOSIUM

Thursday, September 14, 2017  
Forumzaal, Erasmus Universiteit, Rotterdam

### Program

- 8.45 coffee and registration  
9.15 opening: S.M. van der Maarel  
*Chairman: S.M. van der Maarel*  
9.20 **Gonzalo Sanchez-Duffhues** (Department of Molecular Cell Biology, LUMC) "Endothelial-to-mesenchymal transition in human disease"  
9.40 **Luca Signorile** (Department of Cell Biology, Erasmus MC) "Quality control of microtubules: from in vitro experiments to brain malformations"  
10.00 **Bart Appelhof** (Department of Clinical Genetics, LUMC) "Genetic aberrations and disease mechanisms in Pontocerebellar Hypoplasia"  
10.20 **Inge van Gool** (Department of Pathology, LUMC) "Somatic POLE exonuclease domain mutations in (endometrial) cancer"  
10.40 **Marjolein Baar** (Department of Molecular Genetics, Erasmus MC) "Age-related pro-survival responses and cancer"  
11.00 coffee/tea  
*Chairman: H.J. Tanke*  
11.20 **Monika Bialecka** (Department of Anatomy & Embryology, LUMC) "Development of the human germ line, where do we stand now?"  
11.40 **Athina Vidaki** (Department of Genetic Identification, Erasmus MC) "CpGforID: Epigenetic discrimination of identical twins under the forensic scenario"  
12.00 **Anita van den Heuvel** (Department of Human Genetics, LUMC) "Single-cell transcriptomics; Towards unraveling the true FSHD transcriptome (dynamics)"  
12.20 **Dina Vojinovic** (Department of Genetic Identification, Erasmus MC) "Genome-wide association study of brain ventricular volume"  
12.40 -14.00 lunch  
*Chairman: B. v.d. Water*  
Best lecture of the MGC PhD Workshop 2017  
14.00 **Kyra Smit** (Department of Clinical Genetics, Erasmus MC) "Prognostication of uveal melanoma patients: are exosomes the solution?"  
14.20 **Esme Koedoot** (LACDR- Research Division Drug Discovery and Safety, UL) "Integrated RNAi screening and RNAseq analysis to uncover splicing programs that control breast cancer progression"  
14.40 **Saskia Hiltemann** (Department of Pathology and Bioinformatics, Erasmus MC) "Galaxy mother Toolset (GmT): a user-friendly application for 16S rRNA gene sequencing analysis using mother"  
15.00 **Tareq Malas** (Department of Human Genetics, LUMC) "Accelerating drug-discovery in polycystic kidney disease using genome-scale expression profiling analysis"  
15.20 **Erik van der Wal** (Department of Clinical Genetics, Erasmus MC) "Regenerative medicine using iPSC-derived skeletal muscle progenitors"  
15.40 coffee/tea  
*Chairman: D. Huylebroeck*  
16.10 MGC Symposium Lecture  
**Thierry Voet** (KULeuven, Belgium and Sanger Inst., Cambridge, UK) "Single-cell (multi-omics) sequencing to study the biology of cellular heterogeneity in health and disease"  
17.10 drinks and snacks



# 26<sup>th</sup> MGC-SYMPOSIUM

Thursday, September 22, 2016

The Second Level, Leiden

(Bargelaan 180)

## Program

8.45 coffee and registration

9.30 opening: S.M. van der Maarel

Chairman: S.M. van der Maarel

9.35 **Ines Chaves** "Later life health effects of gestational circadian rhythm disturbance in mice" (Department of Molecular Genetics, Erasmus MC)

9.55 **Joshua Peterson** "Insights into Aortic Valve Development in Mice" (Department of Anatomy & Embryology, LUMC)

10.15 **Danny Halim** "Studying Smooth Muscle Cells Through MMIHS – A Heterogenous Disease of Visceral Organs" (Department of Clinical Genetics, Erasmus MC)

10.35 **Erik van den Akker** "Uncompromised ten-year survival of oldest old carrying somatic mutations in DNMT3A and TET2" (Department of Molecular Epidemiology, LUMC and Department of Pattern Recognition & Bioinformatics, TUDelft)

10.55 coffee/tea

Chairman: D.F.E. Huylebroeck

11.15 Best lecture of the MGC PhD Workshop 2016

**Nathalie van den Tempel** "Localized induction of homologous recombination deficiency by hyperthermia" (Department of Molecular Genetics, Erasmus MC)

11.35 **Johan Slotman** "Super resolution microscopy to investigate DNA repair and cell migration" (Department of Pathologie – OIC, Erasmus MC)

11.55 **Maartje van Kregten** "Genetic modification of plants results from Polymerase  $\theta$ -mediated End-Joining" (Department of Human Genetics, LUMC)

12.15 **Marti Quevedo Calero** "Discovery of factors MEDIATING transcription" (Department of Cell Biology, Erasmus MC)

12.35 -14.00 lunch

Chairman: J.H.J. Hoeijmakers

14.00 **Ruben Boers** "MeD-seq, a novel method to detect DNA methylation genomewide" (Department of Developmental Biology, Erasmus MC)

14.20 **Laila Ritsma** "Spying on single cells in vivo using intravital microscopy and imaging windows" (Department of Molecular Cell Biology, LUMC)

14.40 **Tijmen Booij** "3D High-Content Screening of compound libraries to identify modulators of Polycystic Kidney Disease" (LACDR- Division of Toxicology, UL)

Chairman: H.J. Tanke

15.00 **Karolina Lech** "Towards molecular alibi testing: Investigating molecular biomarkers for estimating blood-deposition time" (Department of Genetic Identification, Erasmus MC)

15.20 **Noel de Miranda** "Neo-antigen-targeted immunotherapy in colorectal cancer patients" (Department of Pathology, LUMC)

15.40 coffee/tea

Chairman: R.M.W. Hofstra

16.10 MGC Symposium Lecture:

**Joost Gribnau**: "Activation of X inactivation" (Department of Developmental Biology, Erasmus MC)

17.10 drinks and snacks

# 25<sup>th</sup> MGC-SYMPOSIUM

Thursday, September 10, 2015

Building 3, LUMC

## Program

8.45 coffee and registration

9.30 opening: L.H.F. Mullenders

*Chairman: B. van de Water*

9.35 **Claudia Ruivenkamp**: "BRAIN: a tool to rationalise the biology behind genes for disorders (ID as example)" (Clinical Genetics, LUMC)

9.55 **Arjan Theil**: "New paradigms for understanding the rare progeroid DNA repair disorder trichothiodystrophy" (Genetics, Erasmus MC)

10.15 **Steven Hiemstra**: "Systems microscopy to unravel the signaling network that controls the KEAP1/Nrf2 antioxidant adaptive stress response pathway" (LACDR, UL)

10.35 *Best lecture of the MGC PhD Workshop 2015*

**Malgorzata Grosbart**: "Multiple ligand-specific conformations of the MRE11/RAD50 DNA repair complex" (Genetics, Erasmus MC)

10.55 coffee/tea

*Chairman: R.M.W. Hofstra*

11.15 **Silvana Jirka**: "Enhancing the delivery of antisense oligonucleotides for Duchenne muscular dystrophy" (Human Genetics, LUMC)

11.35 **Tobias Messemaker**: "A novel long non-coding RNA in the rheumatoid arthritis risk locus TRAF1-C5 regulates C5 mRNA levels" (MCB/Reumatologie, LUMC)

11.55 **Virginie Verhoeven**: "Genetic pathways in human myopia" (Clinical Genetics, Erasmus MC)

12.15 **Wouter Leonhard**: "Mechanistic Insights into Autosomal Dominant Polycystic Kidney: The Role of TGF $\beta$ , Activins and Cysts Themselves Human Genetics" (Human Genetics, LUMC)

12.35 -14.00 lunch

*Chairman: J.H.J. Hoeijmakers*

14.00 **Saskia Hiltermann**: "Discriminating somatic and germline mutations in tumour DNA samples without matching normals" (Bioinformatics, Erasmus MC)

14.20 **Arnoud Boot**: "Imprinted cell survival genes drive thyroid cancer cells to maintain heterozygosity on chromosome 7" (Pathology, LUMC)

14.40 **Peter de Keizer**: "Targeted Apoptosis of Senescent Cells (TASC) against cancer and aging" (Genetics, Erasmus MC)

*Chairman: S.M. van der Maarel*

15.00 **Sreya Basu**: "A novel role for dynamic microtubules in the control of stem cell fate" (Cell Biology and Genetics, Erasmus MC)

15.20 **Georgios Kosmidis**: "Human pluripotent stem cell derived cardiomyocytes to study the read through of nonsense mutations in the sodium channel gene SCN5A" (Anatomy and Embryology, LUMC)

15.40 **Petros Kolovos**: "Genome structure and hematopoietic development" (Cell Biology, Erasmus MC)

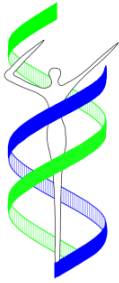
16.00 coffee/tea

*Chairman: D.F.E. Huylebroeck*

16.30 MGC Symposium Lecture:

**Timm Schroeder**: "Long-term single cell quantification: New tools for old questions" (Department of Biosystems Science and Engineering, ETH Zurich, Basel, Switzerland)

17.30 drinks and snacks



**24<sup>th</sup> MGC-SYMPOSIUM**  
**Friday, September 19, 2014**  
**"Engels", Stationsplein 45, Rotterdam**

**Program**

8.45 coffee and registration

9.30 opening: Prof. dr. Leon Mullenders

*Chairman: Prof. dr. Jan Hoeijmakers*

9.35 Simone Olgiati, An Exome Study of Parkinson's Disease in Sardinia, a Mediterranean Genetic Isolate (Clinical Genetics, Erasmus MC)

9.55 Eleonora de Klerk, Mapping ribosome footprints to investigate translational control during myogenesis (Human Genetics, LUMC)

10.15 Parham Solaimani, An unexpected requirement for Gpr56 revealed by whole transcriptome analysis of endothelial-to-hematopoietic stem cell transition (Cell Biology, Erasmus MC)

10.35 *Best lecture of the MGC PhD Workshop 2014*

Risha Smeding, Human Genetics – Forensic Laboratory for DNA research

Genetic paleo-epidemiology: Medically relevant polymorphisms in ancient human populations

10.55 coffee/tea

*Chairman: Prof. dr. Bob van de Water*

11.20 Kirsten Van Dycke, Circadian disruption and increased breast cancer risk (RIVM and Genetics, Erasmus MC)

11.40 Bas ter Braak, Mammary gland tumor promotion by chronic administration of different insulin analogues in the p53R270H/+WAPCre mouse model (LACDR-Toxicology, UL)

12.00 Kishan Naipal, Functional ex vivo assay to select Homologous Recombination deficient breast tumors for PARP inhibitor treatment (Genetics, Erasmus MC)

12.20 Robin van Schendel, Polymerase Theta: stitching genomic wounds at a small expense, (Human Genetics, LUMC)

12.40 -14.00 lunch

*Chairman: Prof. dr. Silvère van der Maarel*

14.00 Tjakkio van Ham, The role of non-neuronal cellular dynamics in neurodegeneration: learning from the zebrafish (Clinical Genetics, Erasmus MC)

14.20 Anke Smits, Optimising the cardiac post-injury response; identifying novel regulators of epicardial EMT (Molecular Cell Biology, LUMC)

14.40 Sabine den Hartogh, Unravelling mesoderm to cardiac progenitor differentiation by using a Mesp1-mCherry-NKX2-5-eGFP dual reporter human embryonic stem cell line (Anatomy and Embryology, LUMC)

15.00 Guillaume Giraud, Co-Recruitment of Fli-1 and the Ldb1 Complex to Regulatory Sequences of Megakaryocytic Genes (Cell Biology, Erasmus MC)

15.20 Fabrizia Carofiglio, Zooming-in on chromosomes in mouse meiosis (Reproduction and Development, Erasmus MC)

15.40 coffee/tea

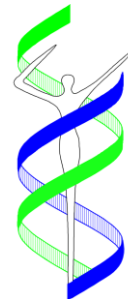
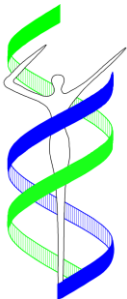
*Chairman: Prof. dr. Frank Grosveld*

16.10 MGC Symposium Lecture: Prof. James Briscoe: "The Gene Regulatory Logic for Reading the Sonic Hedgehog Gradient In The Vertebrate Neural Tube" (MRC National Institute for Medical Research, Department of Developmental Biology, London, UK)

17.10 drinks and snacks

18.00-23.30 buffet dinner with musical accompaniment by the Party band Go Yellow





# 23<sup>rd</sup> MGC-SYMPOSIUM

Thursday, September 19, 2013  
"Engels", Stationsplein 45, Rotterdam

## Program 23<sup>rd</sup> MGC Symposium

8.45 coffee and registration

9.30 opening: F.G. Grosveld

*Chairman: F.G. Grosveld*

9.35 JiangLing Xiong: "Integrin signaling through TGF $\beta$ /miR200/ZEB network regulates epithelial gene expression and controls breast cancer metastasis" (LACDR-Toxicology, UL)

9.55 Haleh Rafati: "Induction of the Wnt signaling pathway by natural ligands or small molecule inhibitors activated latent HIV (Biochemistry, Erasmus MC)

10.15 Sara Martins-Neves: "Wnt/ $\beta$ -catenin signaling in osteosarcoma cancer stem cells" (Pathology, LUMC)

10.35 *Best lecture of the MGC PhD Workshop 2013*

Agnese Loda: "Autosomal spreading of Xist revisited" (Reproduction and Development, Erasmus MC)

10.55 coffee/tea

*Chairman: L.H.F. Mullenders*

11.15 Bert-Jaap van Belle: "DNA-damage sensor XPC differentiates between low and high damage load" (Optical Image Centre, Erasmus MC)

11.35 Joost Schimmel: "Purification, identification and characterization of novel SUMO target proteins" (Molecular Cell Biology, LUMC)

11.55 Gerline van der Glind: "Quiescent stem cells in skin accumulate cyclobutane pyrimidine dimers under low level UV exposure, giving rise to carcinomas upon TPA tumor promotion" (Dermatology, LUMC)

12.15 Wilbert Vermeij: "Effect of DR on life span and neurodegeneration in progeroid DNA repair deficient mouse models" (Genetics, Erasmus MC)

12.35 -14.00 lunch

*Chairman: R.M.W. Hofstra*

14.00 Aniek van der Vaart: "Studying intraflagellar transport in cilia of *Caenorhabditis elegans* by dual-color live imaging" (Cell Biology, Erasmus MC)

14.20 Andrea Martella: "Genome-wide analysis of Ldb1 binding in hemangioblasts reveals novel signaling pathways involved in primitive hematopoiesis" (Cell Biology, Erasmus MC)

14.40 Yunia Sribudiani: "Genetic and functional studies in Hirschsprung disease" (Clinical Genetics, Erasmus MC)

*Chairman: J.H.J. Hoeijmakers*

15.00 Cathelijne van den Berg: "Pluripotent stem cell models of a human cardiac sodium channelopathy" (Anatomy and Embryology, LUMC)

15.20 Muhammad Riaz: "Masking the proximal polyadenylation site of the E3-ligase ARIH2 restores PABPN1 levels in aging-associated muscle degeneration" (Human Genetics, LUMC)

15.40 Mark Drost: "Novel methods for the diagnosis of missense variants in DNA mismatch repair genes in Lynch syndrome" (Toxicogenetics, LUMC)

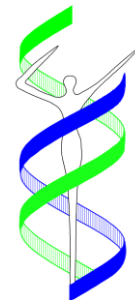
16.00 coffee/tea

*Chairman: G.J.B. van Ommen*

16.30 MGC Symposium Lecture: Prof. dr. Christopher Pearson: "Repeat-associated diseases, pathogenesis & therapeutic avenues" (The Hospital for Sick Children, Department of Genetics, Toronto, Canada)

17.30 drinks

18.30 dinner



# 22<sup>th</sup> MGC-SYMPOSIUM

Thursday, September 13, 2012  
Building 3, LUMC

## Program

8.45 coffee and registration

9.30 opening: F.G. Grosveld

*Chairman: F.G. Grosveld*

9.35 Anastasia Egorova: "Ciliary regulation of endothelial response to shear stress. Consequences for TGFbeta signaling and endothelial-to-mesenchymal transition" (Anatomy and Embryology, LUMC)

9.55 Linde Kegel: "The functional relationship between Lgi proteins and PNS myelin formation" (Genetics, Erasmus MC)

10.15 Eleonora de Klerk: " Poly(A) binding protein nuclear 1 (PABPN1) levels affect alternative polyadenylation " (Human Genetics, LUMC)

10.35 Marialuisa Quadri: " Mutations in SLC30A10 Cause Parkinsonism and Dystonia with Hypermanganesemia, Polycythemia, and Chronic Liver Disease " (Clinical Genetics, Erasmus MC)

10.55 coffee/tea

*Chairman: G.J.B. van Ommen*

11.15 Joris Deelen: "Longevity en telomeres research" (Molecular Epidemiology, LUMC)

11.35 Thomas Clapes: "Role of CLASP2 during mouse embryonic and adult haematopoiesis" (Cell Biology, Erasmus MC)

11.55 Bram Herpers: "Live cell imaging multiparametric RNAi screen of the NFkB nuclear oscillatory response identifies novel regulators of the ubiquitinase A20" (LACDR-Toxicology, UL)

12.15 Julie Rutten: "Cysteine Quantity Correction in CADASIL; modification of the NOTCH3 protein using antisense oligonucleotides" (Human and Clinical Genetics, LUMC)

12.35 -14.00 lunch

*Chairman: B. v.d. Water*

14.00 Jessica Zuin: "Cohesin's role for the higher order chromatin structure at the chromosome 11 p15.5 region" (Cell Biology, Erasmus MC)

14.20 Thomas Costelloe: "The yeast Fun30 and human SMARCA1 chromatin remodelers are novel factors involved in the repair of chromosomal DNA breaks" (Toxicogenetics, LUMC)

14.40 Khek-Chian Tham: "Anti-recombination mediated by DNA mismatch repair proteins" (Genetics, Erasmus MC)

*Chairman: R.M.W. Hofstra*

15.00 Ashok Reddy: "Metabolic enzyme GMP synthetase relays control of p53" (Biochemistry, Erasmus MC)

15.20 Laurens van Meeteren: "Neuropilin-1 signaling in trans regulates VEGF signaling and angiogenesis" (Molecular Cell Biology, LUMC)

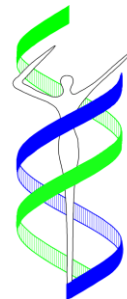
15.40 Marten van der Zee: "Aldehyde dehydrogenase activity earmarks cancer stem cells in endometrial cancer" (Josephine Nefkens Institute, Erasmus MC)

16.00 coffee/tea

*Chairman: L.H.F. Mullenders*

16.30 MGC Symposium Lecture: Prof. dr. Karen Adelman: Potentiating Signal-responsive Transcription: A Dynamic Dance Between Paused Polymerase and Chromatin (Laboratory of Molecular Carcinogenesis, Research Triangle Park, USA)

17.30 drinks and snacks



## 21th MGC-SYMPOSIUM

Thursday, September 15, 2011

Building 3, LUMC

### Program

8.45 coffee and registration

9.30 opening: F.G. Grosveld

*Chairman: F.G. Grosveld*

9.35 Vanessa French: "NPHP4 Variants are Associated with Congenital Heart Malformations and Heterotaxy" (Clinical Genetics, Erasmus MC)

9.55 Eskeatnaf Mulugeta Achame: "Y chromosome lost: the Ellobius lutescens genome" (Reproduction and Development, Erasmus MC)

10.15 Twinkal Pansuriya: "Mutations in XXX cause enchondroma formation in Ollier disease and Maffucci syndrome" (Pathology, LUMC)

10.35 Jun Wang: "The identification of mutations in ZBTB24 in ICF syndrome" (Center for Human and Clinical Genetics, LUMC)

10.55 coffee/tea

*Chairman: B. v.d. Water*

11.15 Raju Kandimalla: "Genome-wide analysis of CpG island methylation in bladder cancer identifies novel biomarkers for diagnosis and prediction of progression" (Pathology, Erasmus MC)

11.35 Petra Schwertman: "Identification of KIAA1530/UV<sup>SSA</sup> in a SILAC-based proteomics screen for ubiquitinated complexes" (Genetics, Erasmus MC)

11.55 Anastasia Shtylik: "Replication stress at endogenous DNA damage induces premature aging" (Toxicogenetics, LUMC)

12.15 Louise von Stechow: "Identifying novel DNA damage signaling networks using a systems biology approach" (LACDR - Toxicology)

12.35 -14.00 lunch

13.35-13.55 De 'Perskamer': 'Hitting the headlines: how to write your scientific data for a broader audience' an informative meeting about a workshop that will be given in two half day sessions (for those interested)

*Chairmen: L.H.F. Mullenders*

14.00 Milena Bellin: "Induced pluripotent stem cells: generation of disease models" (Anatomy and Embryology, LUMC)

14.20 Marie-Jose Goumans: "TGFBeta signaling is necessary for cardiovascular progenitor cell differentiation" (Molecular Cell Biology, LUMC)

14.40 Yaser Atlasi: "Wnt/?-catenin Signaling in Embryonic Stem Cell Self-renewal and Differentiation: the role of Tcf3" (Erasmus MC)

*Chairmen: B. Oostra*

15.00 Dorota Kurek: "Enhanced self-renewal and suppression of spontaneous differentiation of epiblast and human embryonic stem cells by Wnt signaling inhibition" (Stem Cell Institute, Erasmus MC)

15.20 Ralph Stadhouders: "Dynamic long-range chromatin interactions control Myb proto-oncogene transcription during erythroid development" (Cell Biology, Erasmus MC)

15.40 Mijke Visser: "Functional genetics of common phenotypes; HERC2 rs12913832 modulates human pigmentation by attenuating a long-range enhancer of OCA2 expression" (Forensic Molecular Biology, Erasmus MC)

16.00 coffee/tea

*Chairman: F.G. Grosveld*

16.30 MGC Symposium Lecture: Prof. dr. Danny Huylebroeck: "Mouse models for studying TGFBeta family signalling" (Laboratory of Molecular Biology, Center for Human Genetics, K.U.Leuven)

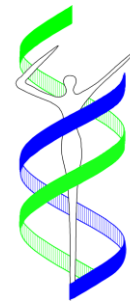
17.30 drinks

18.30 - ~22 h dinner at Boerhaaveplein (building 1)



# 20th MGC-SYMPOSIUM

Thursday, September 16, 2010  
Building 3, LUMC



## Program

8.45 coffee and registration

9.30 opening: G.J.B. van Ommen  
*Chairman: J. Brouwer*

9.35 Marcel Tijsterman: "Genomic instability in *C. elegans* and man" (Toxicogenomics, LUMC)

9.55 Berina Eppink: "Influence of hyperthermia on DNA double-strand break repair" (Genetics, Erasmus MC)

10.15 Charlotte Andrieu-Soler: "Specific Gata1 complexes regulating distinct genetic programs in erythropoiesis" (Cell Biology, Erasmus MC)

10.35 Kerstin Wendt: "Cohesin's role for gene regulation and higher order chromatin structure" (Cell Biology, Erasmus MC)

10.55 coffee/tea

*Chairman: J.H.J. Hoeijmakers*

11.15 Marieke Kuijjer: "Metastasis suppression by tumor infiltrating macrophages in high-grade osteosarcoma" (Pathology, LUMC)

11.35 Luuk Hawinkels: "Matrix metalloproteinase-14-mediated endoglin shedding inhibits tumor angiogenesis" (Molecular and Cellular Biology, LUMC)

11.55 Wies van Roosmalen: "Systematic multiparameter imaging-based functional genomics screening to identify novel candidate metastasis drug targets" (LACDR/ Div of Toxicology)

12.15 Cristina Gontan Pardo: "Activation of X chromosome inactivation" (Reproduction and Development, Erasmus MC)

12.35 lunch

*Chairmen: B. Oostra & L.H.F. Mullenders*

14.00 Yu Sun: "Terminal osseous dysplasia is caused by a unique recurrent mutation in the FLNA gene" (Center for Human and Clinical Genetics, LUMC)

14.20 Aida Bertoli-Avella: "A novel gene identified in a new Thoracic Aortic Aneurysm and Dissections (TAAD) syndrome with early onset Osteoarthritis" (Clinical Genetics, Erasmus MC)

14.40 Richard Lemmers: "A Unifying Genetic Mechanism for FSHD" (Center for Human and Clinical Genetics, LUMC)

15.00 Myrre van Spronsen: "TRAK proteins regulate trafficking of mitochondria in neurons" (Neuroscience, Erasmus MC)

15.20 Rudolf Talens: "Epigenetic epidemiology and cardiovascular disease" (Molecular Epidemiology, LUMC)

15.40 Katrin Ackermann: "Circadian forensics: circadian biomarkers for future crime scene investigation" (Forensic Molecular Biology, Erasmus MC)

16.00 coffee/tea

*Chairman: F.G. Grosveld*

16.30 MGC Symposium Lecture: Amanda Fisher "Resetting the lineage clock - how does reprogramming work?" (MRC Clinical Sciences Centre, Faculty of Medicine, Imperial College London)

17.30 drinks

18.30 - ~22 h dinner with music by MGC members



# 19th MGC-SYMPOSIUM

Thursday, September 17, 2009  
"Engels", Stationsplein 45, Rotterdam

## Program

8.45 coffee and registration

9.30 opening: G.J.B. van Ommen

*Chairman: J. Brouwer*

9.35 Maaïke van Putten: "Effect of a mild exercise regime on disease parameters in dystrophic mouse models" (Center for Human and Clinical Genetics, LUMC)

9.55 Piet van Vliet: "Altered vascular remodeling and epigenetic patterning in offspring by maternal apoE-deficiency" (Anatomy and Embryology, LUMC)

10.15 Farzin Pourfarzad: "Identification of gamma-globin repressor complex" (Cell Biology, Erasmus MC)

10.35 Ingrid van de Laar: "First locus for primary pulmonary vein stenosis maps to chromosome 2q: first steps to gene finding" (Clinical Genetics, Erasmus MC)

10.55 coffee/tea

*Chairman: J.H.J. Hoeijmakers*

11.15 Antoine de Morrée: "A primary sequence motif underlying Calpain 3 substrate cleavage" (Center for Human and Clinical Genetics, LUMC)

11.35 Ekim Ozkaynak: "Claw paw meets the Adams family: novel players in nerve development and myelination" (Genetics, Erasmus MC)

11.55 Eric Soler: "Genome-wide analysis of transcription factor complex binding sites during the course of erythroid differentiation: implications for gene expression regulation" (Cell Biology, Erasmus MC)

12.15 Derk ten Berge: "Wnt Signals are Necessary for Self-Renewal of Pluripotent Stem Cells" (Cell Biology, Erasmus MC)

12.35 lunch

*Chairmen: B. Oostra & L.H.F. Mullenders*

14.00 Hannes Lans: "Developmental switch from GG-NER to TC-NER in *C. elegans*" (Genetics, Erasmus MC)

14.20 Akiko Inagaki: "RAD18 functions in mitotic and meiotic cells" (Reproduction & Development, Erasmus MC)

14.40 Liesbeth Hameetman: "Molecular analysis of skin cancer in immunosuppressed patients" (Toxicogenetics, LUMC)

15.00 Alex Mohseny: "Osteosarcoma originates from mesenchymal stem cells in consequence of aneuploidization and genomic loss of *Cdkn2*" (Pathology, LUMC)

15.20 Lia Pardali: "Genetic and pharmacologic targeting of ALK1 impairs tumor growth and angiogenesis" (Molecular and Cellular Biology, LUMC)

15.40 Willemijn Passtoors: "Transcriptional profiling of familial longevity in the Netherlands" (Molecular Epidemiology, LUMC)

16.00 coffee/tea

*Chairman: F.G. Grosveld*

16.30 MGC Symposium Lecture:  
Prof. Angela Giangrande, 'Genetic and epigenetic cues triggering cell differentiation in the nervous system' (Institute of Genetics and Molecular and Cellular Biology, University of Strasbourg, France)

17.30 drinks

18.30 - ~22 h dinner with music by MGC members





# 18th MGC-SYMPOSIUM

Thursday, September 18, 2008,  
"Engels", Stationsplein 45, Rotterdam

## Program

8.45 coffee and registration

9.30 opening: F.G. Grosveld, chairman MGC

*Chairman: J. Brouwer*

9.35 Astrid Out: "Estimation of MUTYH variant frequencies in pooled DNA with Solexa/Illumina sequencing (Center for Human and Clinical Genetics, LUMC)

9.55 Haico van Attikum: "DNA damage repair: what can chromatin remodelers do for you?" (Toxicogenetics, LUMC)

10.15 Berina Eppink: "Homologous recombination involved in UV induced damage repair" (Genetica, Erasmus MC)

10.35 Cristina Gontan: "Exportin 4 mediates a novel import pathway for Sox family transcription factors" (Kinderchirurgie, Erasmus MC)

10.55 coffee/tea

*Chairman: J.H.J. Hoeijmakers*

11.15 Thamar van Dijk: "Friend of Prmt1, a novel chromatin target of protein arginine methyltransferase" (Cell Biology, Erasmus MC)

11.35 Fanneke Alkemade: "Altered histone methylation and increased athero-susceptibility in offspring after in utero exposure to maternal atherosclerotic risk factors." (Anatomy and Embryology, LUMC)

11.55 Judith Brouwer: "FXTAS; a fragile balance of FMR1 expression" (Clinical Genetics, Erasmus MC)

12.15 lunch

*Chairmen: B. Oostra & L.H.F. Mullenders*

14.00 Martine van Miltenburg "The non-receptor protein tyrosine kinase focal adhesion kinase (FAK) defines mammary gland morphogenesis and lactational differentiation" (Division of Toxicology, LACDR, Leiden University)

14.20 Eugin Destici: "Oscillator-independent control of cell cycle progression by circadian clock proteins." (Genetica, Erasmus MC)

14.40 Peter Henneman: "Genetics of the Metabolic Syndrome; the ERF approach" (Center for Human and Clinical Genetics, LUMC)

15.00 Annemieke Verkerk: "Brain disease gene identification using a combination of SNP and expression arrays" (Bioinformatics, Erasmus MC)

15.20 Antoinet Gijsbers: "Identification of novel candidate loci associated with blepharophimosis phenotypes" (Center for Human and Clinical Genetics, LUMC)

15.40 Susana Montenegro Gouveia: "STIM1 links endoplasmic reticulum to microtubule tips" (Cell Biology, Erasmus MC)

16.00 coffee/tea

*Chairman: G.J.B. van Ommen*

16.30 MGC Symposium Lecture:  
Prof. Dr. Brunhilde Wirth, "Spinal muscular atrophy: from gene and modifiers to therapy" (Institute of Human Genetics, University Hospital of Cologne)

17.30 drinks

18.30 - about 22 h dinner with music by MGC members



## 17th MGC-SYMPOSIUM

Thursday, September 20, 2007,  
"Engels", Stationsplein 45, Rotterdam

### Programme

- 8.45 coffee and registration  
9.30 opening: F.G. Grosveld, chairman MGC  
*Chairman: J. Brouwer*  
9.35 Joyce H.G. Lebbink: "Mechanisms of DNA mismatch repair and antirecombination (Genetica, Erasmus MC)  
9.55 Giel Hendriks: "Transcription enhances mutagenesis in mammalian cells" (Toxicogenetics, LUMC)  
10.15 Jeffrey van Haren: "Steering mitosis with navigators" (Cell Biology, Erasmus MC)  
10.35 Daniël Splinter: "Bicaudal D - a cell-cycle regulated linker between cargo and microtubule motors" (Cell Biology, Erasmus MC)  
10.55 coffee/tea  
*Chairman: J.H.J. Hoeijmakers*  
11.15 Rhyenne Zimmerman: "Apoptin: Sensing early steps in cellular transformation" (Molecular Genetics, Leiden University)  
11.35 Joost Melis: "Different XP mice show divergent cancer phenotypes" (RIVM)  
11.55 Yvonne Schrage: "EXT and its downstream targets in low-grade central chondrosarcoma (CCS)" (Pathology, LUMC)  
12.15 Sima Kheradmandkia "SWI/SNF chromatin remodeler reactivation causes epigenetic reprogramming of the INK/ARF tumor suppressor locus" (Biochemistry, Erasmus MC)  
12.35 lunch  
*Chairmen: B. Oostra & L.H.F. Mullenders*  
14.15 Daniel Warmerdam: "Introduction on PhD student's Workshop."  
14.20 Ilse van den Berg: "Epigenetics and chromosomal abnormalities in human oocytes." (Reproductive Medicine, Erasmus MC)  
14.40 Sylvia Le Dévedec: "Focal adhesion-associated protein dynamics are determined by extracellular-matrix concentration" (Division of Toxicology, LACDR, Leiden University)  
15.00 Peter A.C. 't Hoen: "Expression profiling by massive parallel sequencing and five different microarray platforms" (Center for Human and Clinical Genetics, LUMC)  
15.20 Femke de Vrij: "Rescue of altered spine morphology in a mouse model of Fragile X syndrome" (Clinical Genetics, Erasmus MC)  
15.40 Pauline Roest: "How maternal diabetes leads to congenital heart disease?" (Anatomy, LUMC)  
16.00 coffee/tea  
*Chairman: G.J.B. van Ommen*  
16.30 MGC Symposium Lecture:  
Kenneth B. Storey, Carleton University, Ottawa, Ontario, Canada: "Frozen alive: molecular secrets of freeze tolerant animals"  
17.30 drinks  
18.30 - about 22 h dinner with music by Ghavergu MIDI (Alireza Ghamari, Vincent Verbiest, Laura Gutierrez, Masato Miyata, Chris Dinant).

# 16<sup>th</sup> MGC-SYMPOSIUM

Friday, September 22, 2006

Leidse Hogeschool

## Programme

- 8.45 - 9.30 coffee and registration  
9.30 - 9.35 opening: F.G. Grosveld, chairman MGC

*Chairman: J. Brouwer*

- 9.35 - 9.55 Erik Malta: "Base flipping in nucleotide excision repair"  
9.55 - 10.15 Jill Moser: "Novel factors and insights into the molecular events that regulate the late steps of nucleotide excision repair"  
10.15 - 10.35 Mauro Modesti: "Visualization of protein-DNA transactions during Homologous Recombination"  
10.35 - 10.55 Marieke Simonis: "Nuclear organization of active and inactive chromatin domains revealed by 4C technology"  
10.55 - 11.15 B. R. Prashanth Kumar: "Ubiquitin protease 64 regulates cell differentiation through control of tramtrack levels"

- 11.15 - 11.35 coffee/tea

*Chairman: J.H.J. Hoeijmakers*

- 11.35 - 11.55 Judith Boer: "Identification of cancer biomarkers using (epi)genomic and expression microarrays"  
11.55 - 12.15 Stephan White: "Distribution of recurrent copy number variation in different ethnic populations"  
12.15 - 12.35 Saskia A J Lesnik Oberstein: "Peters' Plus syndrome is a congenital disorder of glycosylation caused by mutations in *B3GALT1*"  
12.35 - 12.55 Paola Alberici: "SMAD4 haploinsufficiency and the crosstalk between Tgf-beta and Wnt signaling in colorectal cancer"

- 12.55 - 14.30 lunch

*Chairman: B. Oostra*

- 14.30 - 14.50 Adrian Rodriguez-Contreras: "Development of large presynaptic terminals in the auditory brainstem of rats"  
14.50 - 15.10 Catherine Robin: "IL-3 (an adult cytokine) regulates hematopoietic stem cells in the midgestation embryo"  
15.10 - 15.30 Leen 't Hart: "Mitochondrial gene defects and susceptibility to develop type 2 diabetes mellitus"  
15.30 - 15.50 Kim van der Heiden: "Shear stress sensing primary cilia in disturbed flow areas are at the base of atherosclerosis"  
15.50 - 16.10 Merel Klaassens: "Molecular (cyto)genetic analysis of congenital diaphragmatic hernia (CDH)"

- 16.10 - 16.30 coffee/tea

*Chairman: G.J.B. van Ommen*

- 16.30 - 17.15 MGC Symposium Lecture:  
John Mattick (Institute for Molecular Bioscience, The University of Queensland, Brisbane, Australia): "The majority of the human genome encodes a hidden RNA regulatory system that controls differentiation and development"

- 17.30 - 19.00 drinks. Music by Laura Gutierrez (voice) and Chris Dinant (piano).

# 15<sup>th</sup> MGC-SYMPOSIUM

Thursday, September 15, 2005  
Engels, Stationsplein 45, Rotterdam

## Programme

- 9.00 - 10.00 coffee and registration  
10.00 - 10.05 opening: *Prof. Dick Bootsma*, founding chairman of the MGC  
*Chairman: J. Brouwer*  
10.05 - 10.25 Sandra van 't Padje: The zebrafish (*Danio rerio*) as a new vertebrate-model system to study striated muscle development  
10.25 - 10.45 Mariska van der Plas: A novel role for dystrophin in the control of neurotransmitter release at the *Drosophila* neuromuscular junction  
10.45 - 11.05 Ben den Dulk: New factors in NER of yeast  
11.05 - 11.25 Sanja Krpic: Interaction of transcription factors  
11.25 - 11.45 coffee/tea  
*Chairman: B. Oostra*  
11.45 - 12.05 Renate Hukema: Gustatory plasticity in *Caenorhabditis elegans*  
12.05 - 12.25 Lisette Mohrmann: Functional diversification between SWI/SNF subunits and cell cycle control  
12.25 - 12.45 Bas Heijmans: Inter-individual epigenetic variation at the *IGF2* locus – preliminary data on its cause and consequence  
12.45 - 13.05 Casper Hoogenraad: EphB Receptor trafficking regulates dendrite morphogenesis  
13.05 - 14.30 lunch  
*Chairman: L.H.F. Mullenders*  
14.30 - 14.50 Payman Hanifi-Moghaddam: Steroid hormone signaling in the human female genital duct system  
14.50 - 15.10 Maroesja van Nimwegen: Focal adhesion kinase (FAK) signaling determines metastatic potential and anticancer drug sensitivity of breast cancer cells.  
15.10 - 15.30 Ellen Sterrenburg: Gene expression profiling reveals a new molecular pathway involved in Oculopharyngeal Muscular Dystrophy  
15.30 - 15.50 Peter Svensson: Gene expression profiling of late radiation toxicity in prostate cancer  
15.50 - 16.10 George Garinis: Genomic profiling of aging in early aging mouse mutants  
16.10 - 16.30 coffee/tea  
*Chairman: J.H.J. Hoeijmakers*  
16.30 - 17.15 MGC Symposium Lecture  
Prof. Ruedi Aebersold (Institute for Biotechnology, ETH Zurich, Switzerland and Institute for Systems Biology, Seattle, USA): Quantitative proteomics and systems biology  
17.30 - 18.30 drinks  
18.30 - about 22 h dinner with music by 'The Tropical Sound' (Carribean music)

# 14<sup>th</sup> MGC-SYMPOSIUM

Thursday, September 16, 2004  
Engels, Stationsplein 45, Rotterdam

## Programme

- 9.00 - 10.00 coffee and registration  
10.00 - 10.05 opening: F.G. Grosveld, chairman MGC

*Chairman: J. Brouwer*

- 10.05 - 10.25 Katsuhiko Hanada "The importance of structure-specific endonucleases for genome stability"  
10.25 - 10.45 Marjo de Graauw "Phospho-proteomics of the epithelial mesenchymal transition"  
10.45 - 11.05 Jan van der Knaap "Histone H2B deubiquitination by the suppressor of position-effect variegation USP7 is stimulated by GMP Synthetase"  
11.05 - 11.25 Sergei Alekseev "Impact of expression of the p48 (DDB2) gene on carcinogenic effects in mice exposed to UV-B radiation"

- 11.25 - 11.45 coffee/tea

*Chairman: J.H.J. Hoeijmakers*

- 11.45 - 12.05 Remco van Doorn "DNA methylation of multiple promoter-associated CpG islands in patients with primary cutaneous T cell lymphoma"  
12.05 - 12.25 Mark Wijgerde "Hedgehog signalling in gonads"  
12.25 - 12.45 Ksenija Drabek "In vivo analysis of the microtubule-end binding protein CLASP-2"  
12.45 - 13.05 Marjolein Janssen "Nuclear dynamics and a novel mechanism of repression of transcription by TEL, a partner in the translocation t(12;22) creating the MN1TEL fusion protein"

- 13.05 - 14.30 lunch

*Chairman: B. Oostra & G.J.B. van Ommen*

- 14.30 - 14.50 Irma Lantinga-van Leeuwen "Lowering of Pkd1 expression is sufficient to cause polycystic kidney disease"  
14.50 - 15.10 Edwin Mientjes "Fxr1 mouse models: determining the function of Fxr1p in vivo"  
15.10 - 15.30 Astrid Lalai "Reduced hematopoiesis in ERCC1-/- mice"  
15.30 - 15.50 Arn M.J.M. van den Maagdenberg "A migraine mouse model with a pathogenic R192Q Cacna1a mutation shows increased susceptibility to cortical spreading depression"  
15.50 - 16.10 Pascal van der Wegen "Gene therapy of liver disease with lentiviral vectors"

- 16.10 - 16.30 coffee/tea

*Chairman: L.H.F. Mullenders*

- 16.30 - 17.15 MGC Symposium Lecture  
Peter Brophy (Professor of Veterinary Anatomy & Cell Biology, University of Edinburgh) "How functional domains are established in myelinated nerve fibres"

- 17.30 - 18.30 drinks

- 18.30 - about 22 h dinner with music by 'Hip Implant' (Ciska - Erwin - Remy - Daniël - Pepijn - Jaan Olle)



# 13<sup>th</sup> MGC-SYMPOSIUM

Thursday, September 18, 2003  
Engels, Stationsplein 45, Rotterdam

## Programme

9.00 - 10.00 coffee and registration  
10.00 - 10.05 opening: F.G. Grosveld, chairman MGC

*Chairman L.H.F. Mullenders*

10.05 - 10.25 Gerdine Stout "Impact of mismatch repair on the UVB induced XPC cell cycle arrest"  
10.25 - 10.45 Maria Fousteri "DNA damage-induced Transcription Inhibition: different mechanisms with many players"  
10.45 - 11.05 Mauro Modesti "Biochemical analysis of DNA repair mechanisms"  
11.05 - 11.25 Jaan Olle Andressoo "Mouse models for Xeroderma pigmentosum, Cockayne syndrome and Trichothiodystrophy"

11.25 - 11.45 coffee/tea

*Chairman P. Verrijzer*

11.45 - 12.05 Robert-Jan Palstra "Structure of the beta globin transcriptosome in vivo"  
12.05 - 12.25 Pieter Fokko van Loo "Sp3: the heart of the matter"  
12.25 - 12.45 Adone Mohd Sarip "Recognition of an epigenetic DNA element by Pleiohomeotic (PHO) and Polycomb (PC)"  
12.45 - 13.05 Erik Hensen "Paternal transmission of disease explained by somatic genetic mechanism, rather than imprinting"

13.05 - 14.30 lunch

*Chairman B.A. Oostra*

14.30 - 14.50 Silvere van der Maarel "Epigenetic causes of Facioscapulohumeral muscular dystrophy (FSHD)"  
14.50 - 15.10 Shuyan Cong "Transcriptional deregulation by huntingtin with an expanded repeat: focus on the early stages"  
15.10 - 15.30 Esther de Graaff "Preaxial polydactyly: a long distance enhancer keeps Shh under the thumb"  
15.30 - 15.50 Mark Nellist "The role of the tuberous sclerosis gene products in signal transduction"  
15.50 - 16.10 Ype Elgersma "Molecular mechanisms underlying synaptic plasticity, learning and memory"

16.10 - 16.30 coffee/tea

*Chairman J.H.J. Hoeijmakers*

16.30 - 17.15 MGC Symposium Lecture:  
Angus Lamond (School of Life Sciences, University of Dundee): "The dynamic nucleus: temporal proteomics & in vivo imaging"

17.30 - 18.30 drinks

18.30 - about 22 h dinner with music by 'Hip Implant' (Laura - Ciska - Erwin - Remy - Daniël - Pepijn - Jaan Olle)

# 12<sup>th</sup> MGC-SYMPOSIUM

Thursday, September 19, 2002  
Engels, Stationsplein 45, Rotterdam

## Programme

9.00 - 10.00 coffee and registration  
10.00 - 10.05 opening: F.G. Grosveld, chairman MGC

*Chairman P. Verrijzer*

10.05 - 10.25 Fernando Silva (Leiden): "Identification of *RUNX1* /*AML1* as a classical tumor suppressor gene."  
10.25 - 10.45 Juan Arredondo (Leiden): "Role of the leukemia-associated AF10 protein in early *Drosophila* development"  
10.45 - 11.05 Martijn de Jager (Rotterdam): "Architecture of the Rad50 protein complex: Implications for its function in DNA repair"  
11.05 - 11.25 Barbara Godthelp (Leiden): "Homologous recombination guards genome integrity and plays a pivotal role in the cellular response to cross-links"

11.25 - 11.45 coffee/tea

*Chairman J.H.J. Hoeijmakers*

11.45 - 12.05 Igor Oruetebarria (Leiden): "SWI/SNF chromatin remodelling complex and human cancer"  
12.05 - 12.25 Patrick Rodriguez (Rotterdam): "Characterisation of GATA-1 protein complex interactions and modification in erythroid cells"  
12.25 - 12.45 Claudia Gaspar (Leiden): "Beta-catenin modulates stem cell differentiation in a dosage-dependent fashion"  
12.45 - 13.05 Carola Haven (Leiden): "Gene expression profiling of parathyroid tumours"

13.05 - 14.30 lunch

*Chairman L.H.F. Mullenders*

14.30 - 14.50 Anna Akhmanova (Rotterdam): "Vesicle trafficking: Bic D and dynein"  
14.50 - 15.10 Sandra Stekelenburg-de Vos (Rotterdam): "Hemodynamics and heart function in the chick embryo during the development of cardiovascular malformations"  
15.10 - 15.30 Annemiek Aartsma-Rus (Leiden): "Development of *in vitro* en *in vivo* exon-skip therapy for Duchenne muscular dystrophy"  
15.30 - 15.50 Mariette Schrier (Rotterdam): "Trafficking of the Fragile X Mental Retardation Protein in PC12 cells"  
15.50 - 16.10 Hanne Meijers-Heijboer (Rotterdam): "*CHK2* 1100delC modifies breast cancer risk in the presence of as yet unknown breast cancer risk factors, but not of *BRCA1* or *BRCA2*"

16.10 - 16.30 coffee/tea

*Chairman G.B.J. van Ommen*

16.30 - 17.15 MGC Symposium Lecture:  
Marc Vidal (Dana Farber Cancer Institute, Harvard Medical School): "Toward a proteome atlas for *C. elegans*"

17.30 - 18.30 drinks

18.30 - about 22 h dinner with music by Eline P. Slagboom (voice) and Trio 'Peter de Vries'.

# 11<sup>e</sup> MGC-SYMPOSIUM

Monday, September 17, 2001

Congress centre Leeuwenhorst, Noordwijkerhout

## Programme

9.00 - 10.00 coffee and registration

10.00 - 10.05 opening: P.H.M. Lohman, chairman MGC

*Chairman J.H.J. Hoeijmakers*

10.05 - 10.25 Esther Verhoeven "Damage recognition in nucleotide excision repair"

10.25 - 10.45 Michael van den Bosch "Recombinational repair in fission yeast"

10.45 - 11.05 Dejan Ristic "Architecture of protein-DNA complexes involved in recombination and its mechanistic implications"

11.05 - 11.25 Niels de Wind "Mutator and antimutator pathways: determinants of fitness and disease".

11.25 - 11.45 Coffee/tea

*Chairman P. Verrijzer*

11.45 - 12.05 Mehrnaz Ghazvini "Axonal regulation of the Oct-6 transcription factor during nerve development and regeneration"

12.05 - 12.25 Tokameh Mahmoudi "GAGA can mediate enhancer function by linking two separate DNA molecules"

12.25 - 12.45 Mariken de Krom "Gene activation: what are the chances?"

12.45 - 13.05 Gert Jansen "Taste perception"

13.05 - 14.30 lunch

*Chairman B.A. Oostra*

14.30 - 14.50 Mark Nellist "Characterisation of the Tuberin-Hamartin complex"

14.50 - 15.10 Peter Heutink "Search for genes involved in complex disorders in genetic isolates"

15.10 - 15.30 Peter de Knijff "The how and Y of population genetics"

15.30 - 15.50 Arja J. Kreeft "Expression profiling to identify novel dietary response genes involved in lipid metabolism"

15.50 - 16.10 Paul Eilers "Classification of microarrays with Penalized Logistic Regression"

16.10 - 16.30 coffee/tea

*Chairman F. Grosveld*

16.30 - 17.15 MGC Symposium Lecture:

Kim Nasmyth (Research Institute of Molecular Pathology, Vienna, Austria):  
"Chromosome segregation in mitosis and meiosis"

17.15 - 19.15 drinks

19.15 - about 22 h dinner (with music by Clarinetchoir Clarity under direction of Rob Westerhof)

# 10<sup>th</sup> MGC-SYMPOSIUM

Thursday, September 21, 2000  
Congress Centre "De Leeuwenhorst", Noordwijkerhout

## Programme

9.00 - 10.00 coffee and registration  
10.00 - 10.05 opening: P.H.M. Lohman, chairman MGC

*Chairman J.H.J. Hoeijmakers*

10.05 - 10.25 Judith Boer "Current possibilities with the DNA chip and micro-array technology in the MGC"

10.25 - 10.45 Beerend P. Hierck "Attenuation of chicken DGCR6, a candidate gene for the DiGeorge syndrome, leads to a partial DiGeorge phenotype"

10.45 - 11.05 Petra M.C. Callenbach "Genetics of idiopathic epilepsy"

11.05 - 11.25 Patrizia Rizzu "Mutation dependent aggregation of tau protein and its selective depletion from the soluble fraction in brain of FTDP-17 patients"

11.25 - 11.45 Judith van Deutekom "Towards the development of an alternative DMD gene therapy based on the antisense oligonucleotide technology"

11.45 - 12.05 Ron Smits "Mutations in the APC tumor suppressor gene cause chromosomal instability"

12.15 - 13.30 lunch

*Chairman F. Grosveld*

13.30 - 13.50 Casper Hoogenraad "CLIPs, CLASPs and (microtubule) behaviour"

13.50 - 14.10 David Whyatt "An intrinsic but cell nonautonomous defect in GATA-1 overexpressing mouse erythroid cells."

14.10 - 14.30 Marella de Bruijn "AML1, a key player in hematopoietic stem cell development"

14.30 - 14.50 Coffee/tea

*Chairman B. Oostra*

14.50 - 15.10 Marcel Volker "Spatial distribution of DNA repair enzymes in the nucleus after local irradiation of the nucleus with UV"

15.10 - 15.30 Vincent van den Boom "Cockayne syndrome B protein: from chromatin remodelling to nuclear dynamics"

15.30 - 15.50 Jasprina N. Noordermeer "Molecular and genetic analysis of nervous system development in *Drosophila*"

16.00 - 16.30 coffee/tea

*Chairman G.J.B. van Ommen*

16.30 - 17.15 MGC Symposium Lecture: E. (Eddy) Rubin, Genome Sciences Department, Lawrence Berkeley National Laboratory "Sifting Sequence for Function: Exploiting the Mouse"

17.15 - 19.00 drinks

19.00 - 22.00 dinner (with music by het Uit-strijkje)

# 9th MGC-SYMPIOSIUM

Thursday, September 16, 1999,

Congress Centre "De Leeuwenhorst", Langelaan 3, Noordwijkerhout

9.00 - 10.00 coffee and registration

10.00 - 10.05 opening: P.H.M. Lohman, chairman MGC

*Session Chairman J.H.J. Hoeijmakers*

10.05 - 10.25 Lars Jansen "Employing yeast genetics: A global search for genes involved in transcription coupled repair"

10.25 - 10.45 Marijke van Oosten "Ultraviolet B-induced acute effects and carcinogenesis in DNA repair deficient mice"

10.45 - 11.05 Deborah Hoogstraaten "Dynamics of nucleotide excision repair in living cells"

11.05 - 11.25 Bert van der Horst "The mammalian biological clock: Cry is the essence"

11.25 - 11.45 Silvere van der Maarel "FRG2, a promising candidate gene for FSHD"

11.45 - 12.05 Rob Tollenaar "Prevalence of BRCA1 in a hospital-based population of Dutch breast cancer patients"

12.15 - 13.30 lunch

*Session Chairman G.J.B. van Ommen*

13.30 - 13.50 Angela A. G. van Tilborg "Chronological allelotyping of recurrent bladder cancers shows intrachromosomal instability and alternating allele loss"

13.50 - 14.10 Menno de Winther "Transgenic mice to study the role of the macrophage scavenger receptor in atherosclerosis"

14.10 - 14.30 Frans W. Verheijen "A novel anion transporter gene is mutated in sialic acid storage disease"

14.30 - 14.50 Coffee/tea

*Session Chairman B. Oostra*

14.50 - 15.10 C.I. de Zeeuw "Mouse model studies supporting LTD as the underlying mechanism of cerebellar motor learning"

15.10 - 15.30 Eric Milot "Transcriptional activation of the  $\beta$  globin locus and epigenetic modulation by variations of chromatin modifiers and transcription factors concentrations"

15.30 - 15.50 Peter Verrijzer "The *Drosophila* Brahma complex is an essential coactivator for the *trithorax* Group protein Zeste"

16.00 - 16.30 coffee/tea

MGC Symposium Lecture *Session Chairman F. Grosveld*

16.30 - 17.15 Nick Hastie, MRC Human Genetics Unit, Edinburgh "Wilms' tumour - a developmental problem; multiple roles for the Wilms' tumour suppressor, WT1"

17.15 - 19.00 drinks

19.00 - 22.00 dinner (music by 'Het Uit-Strijkje')



## Programme

### 8<sup>th</sup> MGC-SYMPIOSIUM

Thursday, September 17, 1998, Noordwijkerhout

9.00 - 10.00 coffee and registration  
10.00 - 10.05 opening: P.H.M. Lohman, chairman MGC

#### SESSION 1 Gene expression

Chairmen F. Grosveld / A.J. van der Eb

10.05 - 10.25 Menno Kielman "The role of the adenomatous polyposis coli tumor suppressor gene in development"  
10.25 - 10.45 Manoussos Koutsourakis "GATA-6 and Early Embryonic Development"  
10.45 - 11.05 Fokke Lindeboom "Overexpression of GATA-1 results in a non-autonomous inhibition of erythroid differentiation"  
11.05 - 11.25 Ingrid Stec "WHSC1, a 90 kb gene expressed in early development with homology to the *Drosophila* dysmorphia gene ash1 maps in the Wolf Hirschhorn Syndrome critical region and is fused to IgH in t(4;14) multiple myeloma"

11.25 - 11.50 coffee

#### SESSION 2 Gene Instability

Chairman J.H.J. Hoeijmakers

11.50 - 12.10 Rolf Kooistra "Isolation and characterization of a fly strain deficient for the *Drosophila* RAD54 homolog, DmRAD54"  
12.10 - 12.30 Susan Wijnhoven "The mouse *Aprt* locus; a versatile tool for *in vivo* LOH studies"  
12.30 - 12.50 Volkher Scharnhorst "EGR-1 modulates the effect of the Wilms' tumor 1 gene product on tumorigenicity"

12.50 - 14.10 lunch

#### SESSION 3 Disease & Therapy

Chairmen B. Oostra / R.R. Frants

14.10 - 14.30 Jan de Boer "Symptoms of premature ageing in a mouse model for the DNA repair/ basal transcription syndrome trichothiodystrophy"  
14.30 - 14.50 Rini de Crom "Human Plasma Phospholipid Transfer Protein has Anti-Atherogenic Properties – A Study in Transgenic Mice"  
14.50 - 15.10 Ton van Agthoven "Identification of BCAR3 by a random search for genes involved in antiestrogen resistance of human breast cancer cells"  
15.10 - 15.30 Peter Heutink "The MAP1A gene and fronto temporal dementia"  
15.30 - 15.50 Marjolein van der Eb "Gene therapy for primary and secondary hepatic cancer"

16.00 - 16.30 coffee/tea

#### SESSION 4

Chairman G.J.B. van Ommen

16.30 - 17.15 MGC Symposium Lecture:  
Charles R. Scriver, Alva Professor of Human Genetics, McGill University, Montreal, Canada "Simple inheritance, 'complex' phenotype: PKU anew"

17.15 - 19.00 drinks

19.00 - 22.00 dinner (music by 'Het Uit\_Strijkje')

# MGC-SYMPOSIUM

*Thursday, September 18, 1997, Noordwijkerhout*

9.00 - 10.00 coffee and registration  
10.00 - 10.05 opening: D. Bootsma, chairman MGC

## SESSION 1 Gene expression

*Chairmen F. Grosveld / A.J. van der Eb*

10.05 - 10.25 Anco Molijn "MN1\_TEL, characterization of an altered transcription factor involved in myeloid leukemia"  
10.25 - 10.45 Peter Bouwman "Functional analysis of Sp1 transcription factor family"  
10.45 - 11.05 Hans van Dam "cJun zipper mutants in cell transformation studies"  
11.05 - 11.25 Tolleiv Trimbom "The dynamics of  $\beta$ -globin gene transcription"  
11.25 - 11.50 coffee

## SESSION 2 Gene Instability

*Chairmen P.H.M. Lohman / G.J.B. van Ommen*

11.50 - 12.10 Jeroen Essers "Mouse Rad54 is involved in ionizing radiation resistance and homologous recombination"  
12.10 - 12.30 Michiel van Oosterwijk "Nucleotide excision repair and its coupling to transcription"  
12.30 - 12.50 Jan Boei "Radiation induced chromosomal aberrations in mammalian cells: analysis by fluorescence in situ hybridization"  
12.50 - 14.10 lunch  
14.10 - 14.30 Willemien van der Houven van Oordt "Modification of the tumor phenotype of Apc1638N mice by X-irradiation"

## SESSION 3 Disease

*Chairmen H. Galjaard / R.R. Frants*

14.30 - 14.50 Agnes Bijvoet "A knock out mouse model of glycogen storage disease type II and enzyme therapy with human recombinant acid alpha-glucosidase from milk as first application"  
14.50 - 15.10 Gisela Terwindt "Genetic heterogeneity in migraine"  
15.10 - 15.30 Marjon van Slegtenhorst "Identification of the Tuberous Sclerosis 1 Gene on Chromosome 9q34"  
15.30 - 15.50 Tamara Peelen "Mutation spectrum of BRCA1 in the Netherlands"  
16.00 - 16.30 coffee/tea

## SESSION 4

*Chairman J.H.J. Hoeijmakers*

16.30 - 17.15 MGC Symposium Lecture  
Steve Jackson, Wellcome/CRC Institute, U.K. "Detection and repair of DNA double strand breaks"  
17.15 - 19.00 drinks  
19.00 - 22.00 dinner (music by 'Het Uit\_Strijkje')

# MGC-SYMPOSIUM

Thursday *19 september 1996* Noordwijkerhout

9.00 - 10.00 coffee and registration  
10.00 - 10.05 opening: D. Bootsma, chairman MGC

## **SESSION 1 Genetic Diseases**

*Chairman G.J.B. van Ommen*

10.05 - 10.25 Barbera Veldhuisen: Identification, cloning and mutation analysis of the PKD2 gene  
10.25 - 10.45 Ron Smits: Genotype-phenotype correlations at the adenomatous polyposis coli (APC) gene: lessons from the targeted mouse models  
10.45 - 11.05 Philippo Tamanini: Association of FMRP with ribosomal precursor particles in the nucleolus is indicative that FMRP is a ribosomal protein  
11.05 - 11.25 Wouter de Laat: Xeroderma pigmentosum group F caused by a defect in a structure-specific DNA repair endonuclease

11.25 - 11.50 coffee

## **SESSION 2 Cellular Mechanisms**

*Chairman A.J. van de Eb*

11.50 - 12.10 Tonnie Rijkers: Recombinational repair in higher eukaryotes  
12.10 - 12.30 Astrid van Oorschot: CAV-derived apoptin induces apoptosis in human tumor cells.  
12.30 - 12.50 Ko Willems van Dijk: The use of adenoviral vectors to study lipoprotein metabolism in transgenic mice

12.50 - 14.10 lunch

14.10 - 14.30 Adrie Havelaar: Sugar transporters of the lysosomal membrane

## **SESSION 3 Genetic Regulation**

*Chairman P.H.M. Lohman*

14.30 - 14.50 Martine Jaegle: The POU factor Oct\_6 is required for the progression of Schwann cell differentiation in peripheral nerves.  
14.50 - 15.10 Alar Karis: GATA and haematopoiesis  
15.10 - 15.30 Elaine Dzierzak: The AGM region: the missing link in mammalian hematopoiesis  
15.30 - 15.50 Monique Duyndam: Activation of the c\_jun promoter by 12S E1A is mediated by ATF\_2 and ATF $\alpha$ .

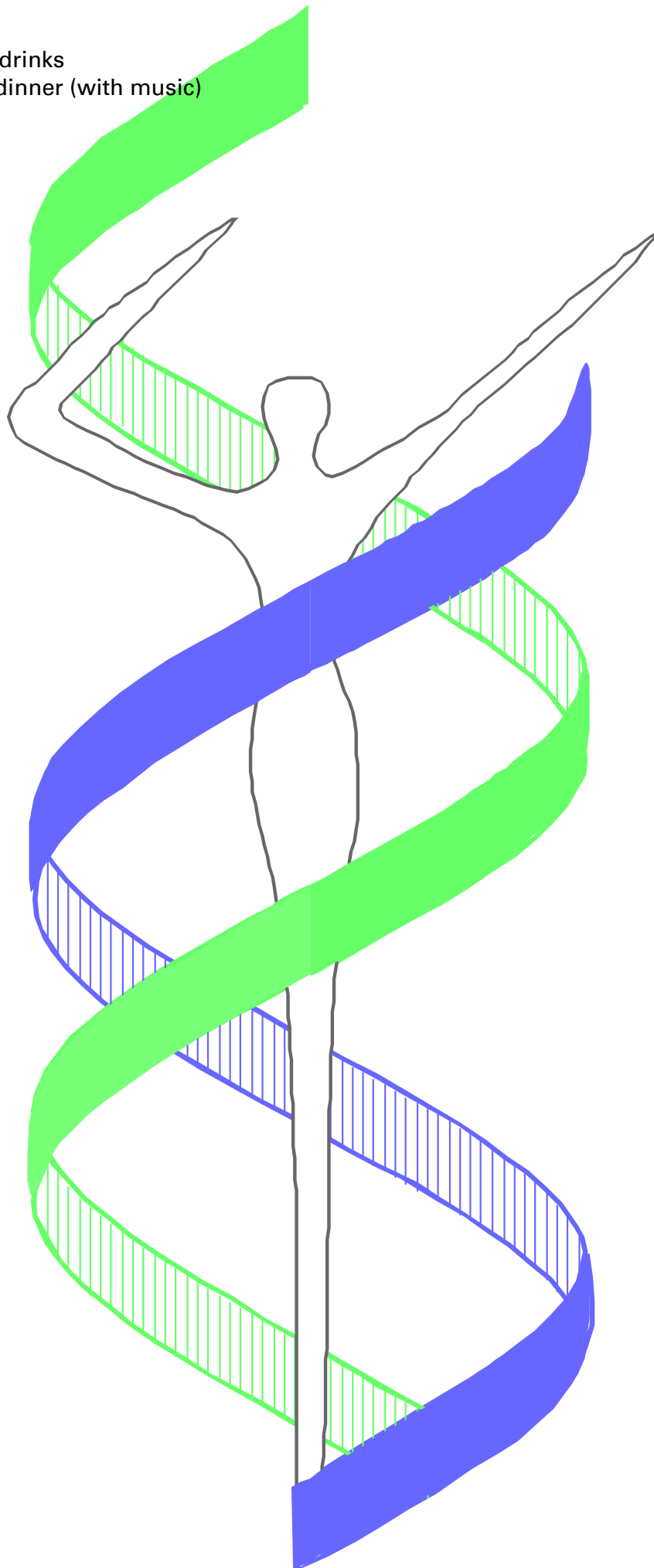
16.00 - 16.30 coffee/tea

## **SESSION 4**

*Chairman F.G. Grosveld*

16.30 - 17.15 MGC Symposium Lecture : Prof. Sir Alec Jeffreys (Univ. of Leicester, U.K.): Spontaneous and induced tandem repeat instability in the human genome

17.15 - 19.00 drinks  
19.00 - 22.00 dinner (with music)



**MGC SYMPOSIUM**  
**Thursday, September 14, 1995**  
**LEEUVENHORST CONGRESS CENTRE, Noordwijkerhout**

9.00 - 10.00 coffee and registration

10.00 - 10.05 opening: D. Bootsma, chairman MGC

**SESSION 1 The Genome in Action**

*Chairmen P.H.M. Lohman and D. Bootsma*

10.05 - 10.25 Mark Wijgerde: Globine gene transcription.

10.25 - 10.45 Roeland W. Dirks: Nuclear organization of RNA processing and transport.

10.45 - 11.05 Janice Pérez: High resolution NMR studies on a human guanine nucleotide exchange factor, the C-terminal domain of elongation factor, EF-1 $\beta$ .

11.05 - 11.25 Govert Schouten: Regulation of transcription factor NF $\kappa$ B in adenovirus transformed cells; implications for MHC class I expression.

11.25 - 11.45 Avi Shvarts: Isolation and characterization of mdm-x, a new p53-associating protein.

11.45 - 12.05 Stefan van den Eijnde: Annexin 5: a new marker for in situ detection of apoptotic cell death during embryogenesis.

12.15 - 13.30 lunch

**SESSION 2 The Disrupted Genome**

*Chairmen H. Galjaard and G.J.B. van Ommen*

13.30 - 13.50 Arnolda van Dalen: Spontaneous mutation rates and molecular mechanisms of loss of heterozygosity in human cells *in vitro* using HLA target loci.

13.50 - 14.10 Diane van Opstal: Rapid detection of chromosomal abnormalities in uncultured amniocytes with fluorescent *in situ* hybridization.

14.10 - 14.30 Fred Petrij: Single gene for Rubinstein-Taybi Syndrome on chromosome 16 identified: the transcription co-activator CBP.

14.30 - 14.50 Nelleke Gruis: Common p16 mutations in Dutch FAMMM families.

14.50 - 15.10 Geert Weeda: Transgenic mice as models for studying DNA repair syndromes.

15.10 - 15.30 Pieter Jan Blommaart: The role of thyroid hormone and its receptors on lung development.

15.30 - 15.50 Frits Fallaux: *In vivo* gene therapy with recombinant adenovirus-based vectors.

16.00 - 16.30 coffee/tea

**SESSION 3**

*Chairman F.G. Grosveld*

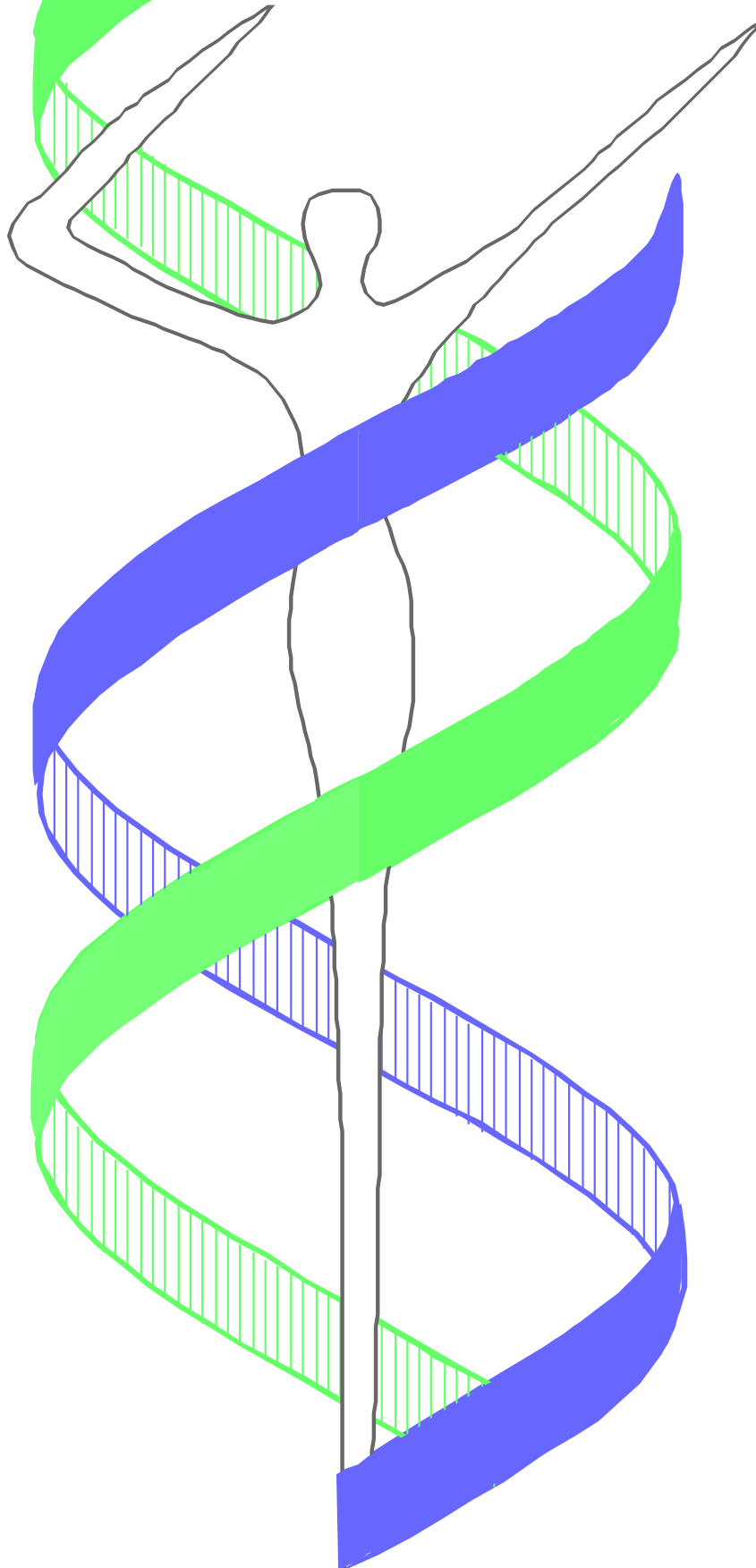
16.30 - 17.15 MGC Symposium Lecture :



Charles Weissmann (University of Zürich): The molecular biology of prion disease.

17.15 - 19.00 drinks

19.00 - 22.00 dinner (music: Salonorkest 'The Nymphs and their Satyr')



# MGC SYMPOSIUM

Thursday, September 15, 1994

LEEUVENHORST CONGRESS CENTRE, Noordwijkerhout

9.00 - 10.00 coffee and registration

10.00 - 10.05 Opening: D. Bootsma, chairman MGC

## SESSION 1 Genetic Damage

Chairman A.J. van der Eb

10.05 - 10.25 R. Verhage: Differential Repair in Yeast

10.25 - 10.45 T. van Laar: The role of P53 in DNA Damage Mediated Cell Cycle Arrest

10.45 - 11.05 E. Mientges: DNA Adducts and Mutations induced by Ethylating Agents in  $\delta$  *lac Z* Transgenic Mice

## SESSION 2 Gene Expression

Chairman F.G. Grosveld

11.05 - 11.25 S. Philipsen: Functional Analysis of LCR-promotor interactions

11.25 - 11.45 M. Wijgerde: Detection of specific gene transcription in single cells as applied to the developmental regulation of human  $\beta$ -globin gene switching.

11.45 - 12.05 R. Zwart: Expression of the POU factor Oct\_6 during mouse embryonal development

12.15 - 13.30 lunch

## SESSION 3 Genes and Development

Chairman H. Galjaard

13.30 - 13.50 M.J.H. Peters van der Sanden: Hindbrain neural crest development and related congenital malformations

13.50 - 14.10 M. Broekhuizen: Altered haemodynamic parameters in the presence of impaired parasympathetic innervation of chick hearts after treatment with all-trans retinoic acid.

## SESSION 4 Genes and Chromosomes

Chairman P.H.M. Lohman

14.10 - 14.30 B. Janssen: Tuberous Sclerosis

14.30 - 14.50 J. Roelfsema: The Isolation and Identification of the PKD1-gene

14.50 - 15.10 E.C. Zwarthoff: Characterization of MN1, an enigmatic Cancer Gene

15.10 - 15.30 J. den Dunnen: High Resolution DNA Fiber-FISH: Visualization of Replication Structures

15.30 - 15.50 C.E. Bakker: FMR1 knockout mice: a model to study fragile X mental retardation

16.00 - 16.30 coffee/tea

## SESSION 5

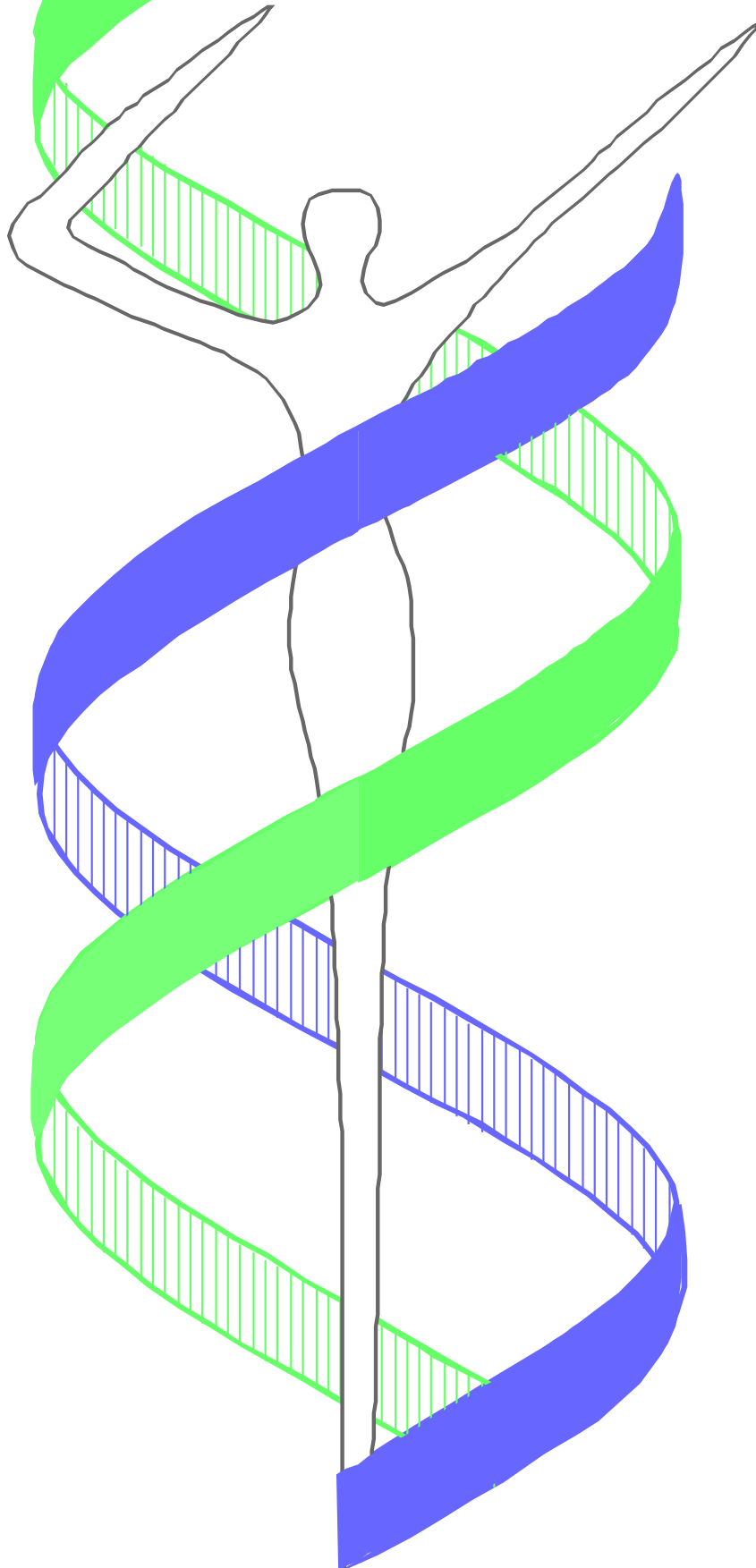
Chairman G.J.B. van Ommen

16.30 - 17.15 MGC Symposium Lecture :

D.C. Wallace: Mitochondrial Genetics: A Paradigm for  
Degenerative Diseases and Aging?

17.15 - 19.00 drinks

19.00 - 22.00 dinner (music by the Philip Paar trio)



*Programma*  
**MGC-SYMPOSIUM**

donderdag 16 september 1993

Noordwijkerhout (Congrescentrum Leeuwenhorst, Langelaan 3).

- 9.00 - 10.00 koffie en registratie (Foyer en omloop)  
Posters kunnen worden opgehangen op de borden in de Foyer en omloop.
- 10.00 - 10.05 opening: D. Bootsma, voorzitter MGC  
**SESSION 1: Chairmen F. Grosveld/A.J. van der Eb**  
*Section 1A: DNA Repair Mechanisms*
- 10.05 - 10.30 W. Vermeulen - DNA repair and transcription  
*Section 2G: Gene therapy*
- 10.30 - 10.50 R.C. Hoeben - Gene therapy for hemophilia: strategies and status
- 10.50 - 11.10 B.J. Scholte - Towards gene therapy for cystic fibrosis  
*Section 2D: Congenital malformations and abnormal embryonic development*
- 11.10 - 11.40 P. Fraser - The role of the human  $\beta$  globin LCR in controlling developmental gene expression  
*Section 1C: Cellular and viral oncogenes*
- 11.40 - 12.05 F.P. Lohman - SPRR genes: a new class of keratinocyte differentiation markers  
*Section 1D: Cancer cytogenetics*
- 12.05 - 12.30 R.E. Kibbelaar - Clonality, trisomies and heterogeneity in myelodysplastic syndromes and chronic lymphocytic leukaemias: application of DNA in situ hybridization
- 12.30 - 13.45 lunch (E-restaurant en zaal C6)
- SESSION 2: Chairmen P.H.M. Lohman/G.J.B. van Ommen**  
*Section 2A: Identification and characterization of disease-linked genes*  
*Section 2B: Genome mapping and analysis of genome structure*
- 13.45 - 14.10 C. Verhey - Characterisation of the FMR1 gene and protein
- 14.10 - 14.30 P. Roest - The protein truncation test (PTT): a detection system for stop codon mutations and application in Duchenne Muscular Dystrophy  
*Section 1B: Heritable tumors and tumorsuppressor genes*
- 14.30 - 14.50 R. van der Lijst - Presymptomatic diagnosis of familial adenomatous polyposis for the prevention of colorectal cancer  
*Section 2C: Cell biological, molecular and genetic aspects of cardio-vascular disease*
- 14.50 - 15.15 B. Vlijmen - Diet-induced hyperlipoproteinemia and atherosclerosis in apoe3leiden transgenic mice  
*Section 1B: Heritable tumors and tumorsuppressor genes*
- 15.15 - 15.35 A. Menke - Tumorsuppression of adeno-transformed kidney cells by chromosome 11: involvement of the WT1 gene?  
*Section 3A: Molecular dosimetry and biological endpoints*
- 15.35 - 16.00 J. Jansen - Molecular analysis of DNA adducts and mutations in rat cells in vitro and in vivo.
- 16.00 - 16.30 Koffie en thee (Foyer en omloop)
- SESSION 3: Chairman H. Galjaard**  
MGC Symposium Lecture :  
H.J. Evans: Genetic Factors in Cancer
- 17.15 - 19.00 borrel (Lounge)
- 19.00 - 22.00 Indonesisch buffet; muzikale omlijsting door het Philip Paar Trio (Ronde)

**MGC SYMPOSIUM**  
**Thursday, September 17, 1992**  
**LEEUVENHORST CONGRESS CENTRE**  
**Noordwijkerhout**

9.00 - 10.00 coffee & registration  
10.00 - 10.05 opening (D. Bootsma, chairman MGC)

**RESEARCH CLUSTER: GENETICAL AND CONGENITAL DISORDERS** (Chair: G.J.B. van Ommen)

*Section: Identification and Characterization of Disease-linked genes*  
*Gene Mapping and Analysis of Genome Structure*

10.05 - 10.15 G.J.B. van Ommen - Introduction to European Genome project  
10.15 - 10.30 K. de Rooij - Search for the Huntington gene  
10.30 - 10.45 C. Wijmenga - Mutations in FSH muscular dystrophy gene  
10.45 - 11.05 P. Heutink - Genetic imprinting in Hereditary paraganglioma's

*Section: Congenital Malformation and Abnormal Embryonic Development*

11.05 - 11.30 M.J. Vaessen - CRABP and RA-induced malformations

*Section: Lysosomal Storage Diseases*

11.30 - 12.00 A. d'Azzo - Biogenesis of protective protein

*Working group: In situ hybridization*

12.00 - 12.30 H. Dauwerse - Inversion chromosome 16 in ANLL and microdeletions associated with Rubinstein-Taybi syndrome

12.30 - 13.45 lunch

**RESEARCH CLUSTER: GENETIC TOXICOLOGY OF RADIATION AND CHEMICAL AGENTS** (Chair: P.H.M. Lohman)

13.45 - 14.10 A.T. Natarajan - Biological dosimetry of absorbed radiation dose in accidents  
14.10 - 14.25 A. Vink - Detection of dimers in skin of mice  
14.25 - 14.40 H. Ruven - Gene specific repair of dimers

**RESEARCH CLUSTER: THE GENETIC BASIS OF CANCER**

(Chair: A.J. van der Eb)

*Section: DNA Repair Mechanisms*

14.40 - 15.05 C. Troelstra - Genetic defect(s) in Cockayne syndrome

*Section: Cellular and Viral Oncogenes*

15.05 - 15.30 M. Fornerod - Molecular analysis of t(6;9) in ANLL

*Section: Heritable Tumors and Tumor Suppressor Genes*

15.30 - 15.55 P. Devilee - Gene predisposing for breast and ovary cancer on the long arm of chromosome 17

15.55 - 16.30 coffee/tea

16.30 - 17.15 MGC Symposium Lecture (Chair: H. Galjaard)  
H. Dupuis: Gen-etica

17.15 - 19.00 drinks/get-together

19.00 - 22.00 buffet and music (coordinators H. Ruven and R.J. Galjaard)

**MGC SYMPOSIUM**  
**Thursday, 19th September, 1991**  
**LEEUVENHORST CONGRES CENTRE**  
**Langelaan 3, Noordwijkerhout**

9.30-10.15 coffee & registration

10.15-10.30 opening (Prof. D. Bootsma, chairman MGC)

**10.30-12.30 RESEARCH CLUSTER GENETIC BASIS OF CANCER** (Chair: Prof.

A.J. van der Eb)

10.30-11.00 *Section: DNA Repair Mechanisms:*

J.H.J. Hoeijmakers - Molecular genetic analysis of DNA repair genes

A.A. v. Zeeland - Analysis of gene-specific repair and mutations

11.00-11.30 *Section: Hereditary Tumor and Tumor Suppression*

A.G. Jochemsen - Introduction Genetically determined tumors and tumor suppression

R. Fodde - Molecular aspects of presymptomatic diagnosis of familial adenomatous polyposis (FAP)

R.H. Lecanne Deprez - Isolation and characterization of genes involved in meningioma (NF2)

11.30-12.00 *Section: Cellular and Viral Oncogenes*

*Working Group: Transcription Factors in Differentiation and Carcinogenesis*

H. van Dam - Differential effects of adenovirus E1A on members of the AP-1 transcription factor family

12.00-12.30 *Section: Cancer Cytogenetics*

*Working Group: In Situ Hybridization*

A.K. Raap - Methods and applications in molecular cytogenetics

12.30-13.45 lunch

**13.45-16.15 RESEARCH CLUSTER: GENETIC AND CONGENITAL DISORDERS**

(Chair: Prof. G.B. van Ommen)

13.45-14.45 *Sections: Identification and Characterization of Disease-linked genes*

*Gene Mapping and Analysis of Genome Structure*

G.J.B. van Ommen - Introduction to genetic diseases and genome structure

A. Verkerk - Progress in Fra(X) research

J.T. den Dunnen - Reconstruction of the 2-5 Mb DMD gene on one YAC by homologous recombination

14.45-15.15 *Section: Cell Biological, Molecular and Genetic Aspects of Cardiovascular Disease*

L. Havekes - Molecular aspects of cholesterol metabolism in relation to the development of premature atherosclerosis

15.15-15.45 coffee/tea

15.45-16.15 *Section: Congenital Malformation and abnormal embryonic Development*

J.H.C. Meijers - Molecular analysis of neural crest development

**16.15-16.45 RESEARCH CLUSTER: GENETIC TOXICOLOGY OF RADIATION AND CHEMICAL AGENTS** (Chair: Prof. P.H.M. Lohman)

16.15-16.45 *Section: Molecular Dosimetry and Biological Endpoints*

R.A. Baan - Introduction Genetic Toxicology

M. Nivard - Structure effect relationship of genotoxic agents in *Drosophila*

16.45-17.45 drinks/get together

18.00-22.30 Indonesian Buffet with music by "Gheselschap Goet ende Fyn"