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## September 20 & 21, 2012

### Putting next generation sequencing in perspective

The NVHG Two-Day Autumn Symposium 2012 - Dutch Society of Human Genetics  
Nederlandse Vereniging voor Humane Genetica ([www.nvhg-nav.nl](http://www.nvhg-nav.nl))

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#### Program Thursday September 20, 2012

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10:00-10:30 Registration (open until 11.00 hrs)

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**10.30-12.25 Plenary session**

Room: Athene B/C  
Chair: Robert Hofstra

10.30-10.40 Opening: Robert Hofstra

10.40-11.15 **Dorret Boomsma** (VU Amsterdam)  
Twins in the NGS era (1)

11.15-11:50 **Eline Slagboom** (LUMC Leiden)  
NGS for age-related disease and longevity, how to make the genome confess (2)

11:50-12.25 **Edwin Cuppen** (UMC Utrecht)  
From genetic inventories of congenital patients towards molecular understanding of phenotypes (3)

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12.30-14.00 Lunch

13:00-14:00 Huishoudelijke vergadering VKGN  
Room: zaal 6

13.15-14:00 Huishoudelijke vergadering VKGL  
Room: zaal 7

14.00-16.00 **Parallel sessions**

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14.00-16.00 **Symposium 1A: VKGN "Syndromes & exomes"**

Room: Athene A  
Chair: Alice Brooks

14.00-14.20 **Ilse Feenstra** (UMC ST Radboud Nijmegen)

Whole exome sequencing in a diagnostic setting; experiences of clinical geneticists and patients (4)

14.20-14.40 **Jeske van Harsseel** (UMC Utrecht)

Dominant missense mutations in ABCC9 cause Cantú syndrome (5)

14.40-15.00 **Gijs Santen** (LUMC Leiden)

Where phenotype meets genotype: Coffin-Siris syndrome as an example (6)

15.00-15.20 **Sietske Kevelam** (VU Amsterdam)

Exome sequencing identifies SLC19A3 mutations in young infants with an acute dramatic, encephalopathy (7)

15.20-15.40 **Suzanne Sallevelt** (MUMC Maastricht)

Next-generation sequencing (NGS) in mitochondrial diseases (-)

15.40-16.00 **Bianca van den Bosch** (MUMC Maastricht)

Exome sequencing reveals a frequent Moroccan founder mutation in SLC19A3 as a new cause of early-childhood fatal Leigh syndrome (8)

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14.00-16.00 **Symposium 1B: VKGL**

Room: Athene B/C  
Chair: Bert Bakker & Hans Scheffer

14.00-14.30 **Luc Dehaspe** (Universiteit Leuven, België)

Quality aspects of diagnostic NGS (9)

14.30-15.00 **Elles Boon** (LUMC Leiden) & **Gerard te Meerman** (UMC Groningen)

NGS & NIPD: the NITRO study (10 / 11)

15.00-15.20 **Lisenka Vissers** (UMC St. Radboud Nijmegen)

Diagnostic Exome Sequencing in Patients with Severe Intellectual Disability (12)

15.20-15.40 **Terry Vrijenhoek** (UMC Utrecht)

Beyond NGS technology – overcoming key challenges for nation-wide implementation of next-generation sequencing into routine diagnostics (13)

15.40-16.00 **Steven Van Vooren** (Cartagenia, Leuven, België)

Clinical NGS data analysis with Cartagenia BENCH lab NGS: Store, Explore, Automate and Validate. (14)

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- 14.00-16.00 **Symposium 1C: NACGG**  
Next-generation sequencing: return of incidental findings in biobanking and clinical practice  
  
Room: zaal 6  
Chair(s): Cecile Janssens + Irene van Langen
- 14.00-14.20 **Helger IJntema** (UMC St. Radboud Nijmegen)  
Incidental findings from exome sequencing: what can we tell from our DNA?
- 14.20-14.40 **Ellen Smets** (AMC Amsterdam)  
Always expect the unexpected: preferences of donors and researchers for the return of results in biobank research
- 14.40-15.00 **Tessel Rigter** (VU Amsterdam)  
Next generation sequencing in diagnostics: exploring needs for the informed consent procedure
- 15.00-15.20 **Annelien Bredenoord** (UMC Utrecht)  
Feedback of results: a menu of options
- 15.20-15.40 Discussion

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16.00-17.00 Posters, coffee, tea  
Presenters at posters

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17.00-18.30 **Forum discussion**  
in Dutch  
Room: Athene B/C

Prof. dr. Bert Schadé  
Emeritus hoogleraar huisartsgeneeskunde

Prof. dr. Dick Willems  
Hoogleraar Medische Ethiek, afdeling huisartsgeneeskunde AMC / UVA,  
Lid Raad voor Gezondheid

Prof. mr. Simon Stolwijk  
Emeritus hoogleraar strafrecht

Marjolein Bos  
Nierpatiënten Vereniging Nederland (NVN) - Kennisgroep Erfelijke Nierziekten

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**Evening**

**Drinks**

**Dinner**

**Party**

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## Program Friday September 21, 2012

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- 9.00-10.00 **Plenary session**  
Room: Athene B/C  
Chair: Hans Kristian Ploos van Amstel
- 9.00-9.30 **André Uitterlinden** (Erasmus MC Rotterdam)  
Genome-Wide Explorations in Cohort Studies (20)
- 9.30-10.00 **Hans Scheffer** (UMC St. Radboud Nijmegen)  
Development, validation and implementation of next generation sequencing in clinical genetic diagnostics (21)
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10.15-11.15 **Parallel sessions**

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- 10.15-11.15 **Symposium 2A: Gene Discovery**  
Room: Athene B/C  
Chair: Raoul Hennekam
- 10.15-10.30 **Richarda de Voer** (UMC St. Radboud Nijmegen)  
Mutations in the Spindle Assembly Checkpoint Genes BUB1 and BUB3 Are Risk Factors for Mosaic Aneuploidy and Colorectal Cancer (22)
- 10.30-10.45 **Magdalena Harakalova** (UMC Utrecht)  
X-exome sequencing identifies a HDAC8 variant in a large pedigree with X-linked intellectual disability, truncal obesity, gynecomastia, hypogonadism and unusual face (23)
- 10.45-11.00 **Richard Lemmers** (LUMC Leiden)  
Identification of the epigenetic modifier of the D4Z4 epiallele in FSHD type 2 (24)
- 11.00-11.15 **Tjitske Kleefstra** (UMC St. Radboud Nijmegen)  
Disruption of an EHMT1-associated chromatin modification module causes intellectual disability (25)
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- 10.15-11.15 **Symposium 2B: Pharmacogenetics**  
Room: Athene A  
Chair: Peter Devilee
- 10.15-10.30 **Marieke Coenen** (UMC St. Radboud Nijmegen)  
Screening of the TPMT gene before thiopurine treatment results in a lower leucopenia occurrence in patient with inflammatory bowel disease (26)
- 10.30-10.45 **Martina Wilke** (Erasmus MC Rotterdam)  
Assessment of CFTR function in patients with CFTR mutations of unknown clinical relevance (27)
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- 10:45-11:00 **Elmar Tobi** (LUMC Leiden)  
Genome-scale characterization of DNA methylation differences after prenatal exposure to the Dutch Famine using next generation bisulfite sequencing (28)
- 11.00-11.15 **Catherina Meijer** (Erasmus MC Rotterdam)  
Is Direct-to-Consumer Personal Genome Testing for All Ethnicities? (29)
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- 11.15-11.45 Coffee-tea break
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- 11.45-12.45 **Parallel sessions**
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- 11.45-12.45 **Symposium 3A: Gene function & Brain**  
Room: Athene A  
Chair: Hans van Bokhoven
- 11.45-12.00 **Grazia Mancini** (Erasmus MC Rotterdam)  
Mutations in Rotatin link primary cilia function to organization of the human cerebral cortex (30)
- 12.00-12.15 **Renate Hukema** (Erasmus MC Rotterdam)  
A new inducible mouse model for Fragile X-associated Tremor/Ataxia Syndrome (FXTAS) (31)
- 12.15-12.30 **Gea Beunders** (VU Amsterdam)  
C-terminal deletions of the AUTS2 locus cause distinct syndromic features and cognitive impairment (32)
- 12.30-12.45 **Erik-Jan Kamsteeg** (UMC St. Radboud Nijmegen)  
Mutations in ISPD cause Walker-Warburg syndrome and defective glycosylation of alpha-dystroglycan (33)
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- 11.45-12.45 **Symposium 3B: Diagnostics**  
Room: Athene B/C  
Chair: Lies Hoefsloot
- 11.45-12.00 **Christian Gilissen** (UMC St. Radboud Nijmegen)  
Exome sequencing analysis for diagnostics (34)
- 12.00-12.15 **Isaac Nijman** (UMC Utrecht)  
Bioinformatic processing of next generation sequencing data in a diagnostic setting (35)
- 12.15-12.30 **Arthur van den Wijngaard** (MUMC Maastricht)  
CHIP-based parallel sequencing of multiple candidate genes resolves the genetic architecture of patients with cardiomyopathy (36)

12.30-12.45 **Rowina Almomani** (UMC Groningen)  
Exome sequencing and haplotype sharing analyses result in the identification of novel genetic causes of cardiomyopathies (37)

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12.45-13.00 Algemene ledenvergadering NVHG

13:00-14:00 Lunch and posterviewing

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14.00-15.45 **Plenary session**  
Room: Athene B/C  
Chair: Frank Baas

14.00-14.35 **Rene Bernards** (AVL Amsterdam)  
Using functional genetics to optimize the treatment of cancer (38)

14.35-15.10 **Henk Stunnenberg** (NCMLS, UMC St. Radboud Nijmegen)  
Human epigenomes: the good, the bad and the ugly (39)

15.10-15.45 NVHG Annual Award 2012

15.15-16.00 Prof. dr. Hans Galjaard Lecture 2012

**Gert Matthijs** (Universiteit Leuven, België) (40)  
Next Generation Sequencing and Diagnostics: the Sky is the limit but this place is Earth

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16:00 **Closure**