

Program of the Annual AGD Meeting 2016, Potsdam Oct. 7–8

Friday, October 7

12:00–13:30 New tools in genomics – Sponsors' Satellite Session

Session Chair: Udo Schimmel, Alphametrix Biotech GmbH, Rödermark

- 12:00–12:10 **Udo Schimmel** (Alphametrix Biotech GmbH, Rödermark, Germany)
Welcome and Introduction
- 12:10–12:30 **Lisa Gamwell** (DNA Genotek Inc., Ottawa, Ontario, Canada)
“From Genomes to Microbiomes: Tools and techniques to accelerate microbiome discovery”
- 12:30–12:50 **Lucia Cinque** (Genomic Vision, Bagneux, France)
“DNA fiber analysis with Genomic Vision's technology: new perspectives for the study of structural variations and dynamic genomic events”
- 12:50–13:10 **Guillaume Durin** (Covaris Ltd, Brighton, UK)
“DNA and RNA extraction with Covaris AFA technology for NGS analysis: Application to liquid biopsies, FFPE and DBS samples”
- 13:10–13:30 **Wieland Keilholz** (Becton Dickinson GmbH, Heidelberg, Germany)
“BD Genomics – Innovative solutions for single cell transcriptomics & NGS library preparation”

13:30–14:00 Coffee Break, Industrial Exhibition and Poster Viewing

The following companies' sponsorship is gratefully acknowledged

Advanced Analytical Technologies Inc.	Genomic Vision
Affymetrix UK Ltd	Illumina GmbH
Agilent Technologies Inc.	JSI medical systems GmbH
ATLAS Biolabs GmbH	Multiplicom N.V.
Becton Dickinson GmbH	QIAGEN GmbH
Bluebee Holding B.V.	Roche Diagnostics Deutschland GmbH
Covaris Ltd	Steinbrenner Laborsysteme GmbH
DNA Genotek Inc.	TIB MOLBIOL GmbH

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14:00–14:15 Welcome and Opening of Symposium

Peter Nürnberg, President of the AGD

Peter N. Robinson, Chair of the Program Committee

14:15–16:15 Session 1 – New discoveries by large sequencing studies

Session Chair: Peter N. Robinson, The Jackson Laboratory, Farmington, CT, USA

- 14:15–14:45 **Ali Torkamani** (The Scripps Translational Science Institute, La Jolla, CA, USA)
“Whole-genome sequencing of a healthy-aging cohort”
- 14:45–15:15 **Marc-Phillip Hitz** (Sanger Institute, Hinxton, UK, and CAU Kiel, Germany)
“Large-scale genome analysis in congenital heart disease”
- 15:15–15:45 **Damian Smedley** (Queen Mary University of London, Genomics England, UK)
“How to interpret 100,000 genomes?”
- 15:45–16:15 **Peter Fromen** (Illumina Cambridge Ltd, Little Chesterford, Essex, UK)
“Precision medicine and the power of Tens”

16:15–17:00 Coffee Break, Industrial Exhibition and Poster Viewing

17:00–18:30 Session 2 – Clinical application of next generation genetics

Session Chair: Peter Nürnberg, Cologne Center for Genomics, Köln, Germany

- 17:00–17:30 **Joris Veltman** (Radboud University Medical Centre & Maastricht University Medical Centre, Nijmegen & Maastricht, The Netherlands)
“De novo mutations in intellectual disability”
- 17:30–18:00 **Fowzan S. Alkuraya** (King Faisal Specialist Hospital & Res. Ctr., Riyadh, Saudi Arabia)
“Counting variants and variants that count”
- 18:00–18:30 **Thomas Rothmann** (QIAGEN GmbH, Hilden, Germany)
“The GeneReader™ NGS System – the first complete Sample to Insight® NGS solution”

18:30–19:15 Keynote lecture by Tim Hubbard **(Head of Department of Medical & Molecular Genetics, King's College London; Head of Genome Analysis, Genomics England; UK)** “Implications of the 100,000 genomes project for health care”

19:15–20:30 Buffet, Industrial Exhibition and Poster Viewing

20:30–21:30 Concert "Vom Frühlingsgruß bis zur Winterreise"

Lieder und Klaviermusik von Franz Schubert

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Saturday, October 8

8:30–10:00 Session 3 – Digital phenotyping of patients

Session Chair: Peter Nürnberg, Cologne Center for Genomics, Köln, Germany

- 08:30–09:00 **Peter Robinson** (The Jackson Laboratory for Genomic Medicine, Farmington, Connecticut, USA)
“The human phenotype ontology (HPO)”
- 09:00–09:30 **Tudor Groza** (Garvan Institute of Medical Research, Sydney, Australia)
“Mining phenotype descriptions from literature”
- 09:30–10:00 **Christoffer Nellåker** (University of Oxford, Oxford, UK)
“What's in a face?”
- 10:00–10:20 **Markus Dueringer** (Bluebee, Rijswijk, The Netherlands)
“Diagnostics in a cloud based app”

10:20–11:00 Coffee Break, Industrial Exhibition and Poster Viewing

11:00–13:00 Session 4 – Networks and big data for medicine

Session Chair: Peter N. Robinson, The Jackson Laboratory, Farmington, CT, USA

- 11:00–11:30 **Andrey Rzhetsky** (University of Chicago, Chicago, IL, USA)
“Adventures in analysis of large datasets: genetics, environment and disease”
- 11:30–12:00 **Søren Brunak** (Technical University of Denmark, Lyngby, Denmark)
“Population-wide disease trajectories in a lifelong perspective”
- 12:00–12:30 **Wolf-Michael Catenhusen** (German Ethics Council, former State Secretary at BMBF)
“Political framework for digital and genomic medicine in Germany”
- 12:30–13:00 **Panel Discussion**

13:00–13:30 Oral presentations of poster prize winners

13:30–14:30 Buffet, Industrial Exhibition and Poster Viewing

14:30–16:00 AGD General Assembly

16:00 End of Meeting

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