

Program of the Annual AGD Meeting 2018, Potsdam Oct. 5–6

Friday, October 5

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

Session Chair: Udo Schimmel, Alphametrix Biotech GmbH, Rödermark

- 12:00–12:15 **Pawel Zajac** (Illumina)
“Exploring biological systems at single-cell resolution with Illumina technology”
- 12:15–12:30 **Nico Dunkel** (Takara Bio Europe)
“SMARTer™ ICELL8®: The Open Platform for Single-Cell Genomics”
- 12:30–12:45 **Markus Tilmes** (Advanced Analytical Technologies GmbH, Germany)
“Single-Cell QC with the FEMTO Pulse”
- 12:45–13:00 **Patrick Baum** (Boehringer Ingelheim Pharma)
“Use of single-cell RNAseq in drug development”
- 13:00–13:15 **Peter Verhasselt** (Integrated DNA Technologies)
“Developments at Integrated DNA Technologies towards ultra-sensitive variant detection and single-cell sequencing”
- 13:15–13:30 **Illia Glavatskyi** (Cellenion, Lyon, France)
“cellenONE X1: an open platform bringing accuracy and versatility to the world of single cell isolation”

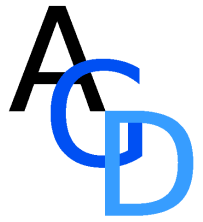
13:30–14:00 Coffee Break, Industrial Exhibition and Poster Viewing

The following companies' sponsorship is gratefully acknowledged

10x GENOMICS	Genomic Vision
Advanced Analytical Technologies GmbH	Illumina GmbH
Agilent Technologies	Integrated DNA Technologies
ATLAS Biolabs GmbH	Mission Bio
BD Life Sciences Genomics	Oxford Nanopore Technologies Ltd.
Boehringer Ingelheim Pharma	QIAGEN GmbH
Cellenion	Roche Diagnostics Deutschland GmbH
Comma Soft AG	Takara Bio Europe
Covaris Ltd	

New insights gained by single-cell genomics

Arbeitsgemeinschaft für Gen-Diagnostik e.V.



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

Peter Nürnberg, President of the AGD
Joachim L. Schultze, Chair of the Program Committee

14:15–16:15 Session 1 – The diversity of the human immunome

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

- 14:15–14:45 **Christoph Kreer** (Institute of Virology, University Hospital of Cologne, Germany)
“openPrimeR for multiplex amplification of highly diverse single-cell templates”
- 14:45–15:15 **Nir Yosef** (Center for Computational Biology, UC Berkeley, USA)
“Cell-specific metabolic models reveal targets that mitigate pathogenicity in T helper cells”
- 15:15–15:45 **Mihai Netea** (Nijmegen Medical Center and LIMES Institute, Bonn, Germany)
“The Human Functional Genomics Project”
- 15:45–16:15 **Wieland Keilholz** (BD Life Sciences Genomics, Heidelberg, Germany)
“BD Rhapsody: Massively Parallel Single-Cell Protein & RNA Profiling”

16:15–16:45 Coffee Break, Industrial Exhibition and Poster Viewing

16:45–18:45 Session 2 – The Human Cell Atlas and beyond

Session Chair: Joachim L. Schultze, LIMES Institute, Bonn, Germany

- 16:45–17:15 **Roland Eils** (BIH Center for Digital Health, Berlin, Germany)
“Phenoseq: Placing single-cell sequencing into a spatial context”
- 17:15–17:45 **Fabian J. Theis** (Technical University and Helmholtz Zentrum München, Germany)
“Lineage estimation from single-cell RNA-seq time-series”
- 17:45–18:15 **Jan Philipp Junker** (Max Delbrück Center for Molecular Medicine, Berlin, Germany)
“Lineage tracing on the organism-wide level”
- 18:15–18:45 **Florent Ginhoux** (Singapore Immunology Network, A*STAR, Singapore)
“Monocyte and Macrophage Biology: From Development to Functions”

18:45–19:30 Keynote lecture by Miriam Merad (Icahn School of Medicine at Mount Sinai, New York, NY, USA) “Understanding human organs with unprecedented resolution”

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

20:30–21:30 Concert “Man muss die Musik des Lebens hören...” (Theodor Fontane) Worte des Dichters und Musik aus seiner Zeit

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Saturday, October 6

8:30–10:30 Session 3 – From genomes to epigenomes — the multiomics path

Session Chair: Joachim L. Schultze, LIMES Institute, Bonn, Germany

- 08:30–09:00 **Andreas Schlitzer** (LIMES Institute, University of Bonn, Germany)
“Revisiting the human myeloid cell system - one cell at a time”
- 09:00–09:30 **Philip Rosenstiel** (Institute of Clinical Molecular Biology, CAU, Kiel, Germany)
“Precision medicine by multi-omics approaches in inflammatory diseases: Are we there yet?”
- 09:30–10:00 **Emmanouil Dermizakis** (University of Geneva, Switzerland)
“Hierarchical functional genomics to interpret genome variation and dissect complex disease architecture”
- 10:00–10:30 **Christina Kratsch** (Comma Soft AG, Bonn, Germany)
“Single-cell analytics — the data challenge”

10:30–11:00 Coffee Break, Industrial Exhibition and Poster Viewing

11:00–13:00 Session 4 – Tumor heterogeneity and CTCs

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

- 11:00–11:30 **Siegfried Hauch** (QIAGEN GmbH, Hilden, Germany)
“An easy method for CTC single cell isolation and subsequent molecular profiling”
- 11:30–12:00 **Nadia Luheshi** (MedImmune, Cambridge, UK)
“Single-cell sequencing in immuno-oncology”
- 12:00–12:30 **Itay Tirosh** (Weizmann Institute of Science, Rehovot, Israel)
“An integrated model of cellular states and genetics in glioblastoma”
- 12:30–13:00 **Simon Joosse** (Department of Tumor Biology, UKE, Hamburg, Germany)
“CTCs as liquid biopsy in the management of cancer patients”

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

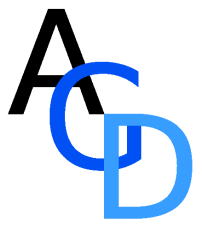
13:30–14:30 Buffet, Industrial Exhibition and Poster Viewing

14:30–16:00 AGD General Assembly

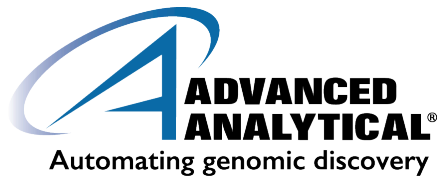
16:00 End of Meeting

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THE KNOWLEDGE PEOPLE

