# Program

## Tuesday, December 11, 2012

### Satellite Symposia - Krehl Klinik Auditorium, INF 410

12:00 - 2:00 pm **Satellite Symposium**: Small RNAs (Org. J. Haas and J. Brosius) Bryan Cullen - Sebastién Pfeffer - Gunter Meister -Richard Reinhardt

02:00 - 2:30 pm ***Coffee Break***

02:30 - 4:00 pm **Satellite Symposium**: Next-Generation Sequencing (Org. S. Wiemann and B. Timmermann) Stephan Wolf - Wolfgang Huber - Benedikt Brors - Saskia Biskup

04:00 - 4:30 pm ***Coffee Break*** (DKFZ Communication Center)

### Welcome - DKFZ Communication Center, Main Auditorium

4:30 - 5:00 pm **Wolfgang Wurst**, Helmholtz Zentrum Munich, Germany, Speaker Project Committee of NGFN-Plus / NGFN-Transfer in the Program of Medical Genome Research

**N.N.**, Federal Ministry of Education and Research, Germany

**Christof von Kalle**, National Center for Tumor Diseases (NCT)/ German Cancer Research Center (DKFZ), Heidelberg, Germany

### Symposium I: International Projects in the Program of Medical Genome Research

5:00 - 5:30 pm *International Cancer Genome Consortium (ICGC)*
**Michael Taylor,** The Hospital for Sick Children, Toronto, Canada

5:30 - 6:00 pm *International Cancer Genome Consortium (ICGC)*
**Peter Lichter,** DKFZ, Heidelberg, Germany
*Novel findings in pediatric brain tumors revealed by high resolution genome, methylome and transcriptome analyses*

6:00 - 6:30 pm *International Cancer Genome Consortium (ICGC)*
**Matthew Meyerson,** Dana Farber Cancer Institute, Boston, USA
*Genome Alterations in Human Lung Cancers*

6:30 - 7:00 pm *1000 Genomes Project*
**Hans Lehrach**, MPI for Molecular Genetics, Berlin, Germany
*1000 Genomes Project - An integrated map of genetic variation*

7:00 pm ***Supper***

## Wednesday, December 12, 2012

### Symposium II: International Projects in Genome Research

9:00 - 9:30 am **John Blangero**, Texas Biomedical Research Institute, San Antonio, USA
*Identification of Complex Disease Genes Using Whole Genome Sequencing in Large Pedigrees*

9:30 - 10:00 am **Joris A. Veltman,** Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands
*De novo diagnostics in patients with intellectual disability*

10:00 - 10:30 am *Alzheimer's Disease Genetics Consortium (ADGC)*
**Gerard D. Schellenberg,** University of Pennsylvania School of Medicine, Philadelphia, USA
*Neurodegenerative disease genetics; GWAS, exomes and beyond*

10:30 - 11:00 am ***Coffee Break***

11:00 - 11:30 am *International Human Epigenome Consortium (IHEC)*
**Peter Jones,** USC Norris Comprehensive Cancer Center, Los Angeles, USA
*The Cancer Epigenome*

11:30 - 12:00 pm *International Human Epigenome Consortium (IHEC)*
**Jörn Walter,** Saarland University, Germany
*Control of DNA-methylation in development*

12:00 - 2:00 pm ***Lunch Break and Poster Session I***
12:00 – 1:00 pm odd numbers
01:00 – 2:00 pm even numbers

***Company Satellite Session***
*Affymetrix - Caliper a Perkin Elmer Company - Illumina - Bio-Rad Laboratories*

2:00 - 2:30 pm *International Knockout Mouse Consortium / EUCOMM*
**Wolfgang Wurst,** Helmholtz Zentrum Munich, Germany
*International Mouse Knock-out Consortium: Resource to functionally validate all genes*

2:30 - 3:00 pm *International Mouse Phenotyping Consortium / EUMODIC*
**Martin Hrabě de Angelis,** Helmholtz Zentrum Munich, Germany
*Creating a comprehensive encyclopedia of mammalian gene function*

3:00 - 3:30 pm **Matthias Mann,** Max Planck Institute for Biochemistry, Munich, Germany
*High resolution, quantitative mass spectrometry combines proteomics and genomics*

3:30 - 4:00 pm ***Coffee Break***

### Symposium III Genomics of Common Disease I

4:00 - 4:15 pm **André Reis**, University Erlangen-Nuremberg, Germany
*Range of genetic mutations associated with severe non-syndromic sporadic intellectual disability: An exome sequencing study*

4:15 - 4:30 pm **Vanessa Nieratschker,** Central Institute for Mental Health, Mannheim, Germany
*Pre-, peri- and postnatal stress in human and non-human off-spring: A convergent approach to study genetic and epigenetic impact on depression*

4:30 - 4:45 pm **Andre Franke,** University Hospital Schleswig-Holstein, Kiel, Germany
*Host-microbe interactions shape genetic risk for inflammatory bowel disease*

4:45 - 5:00 pm **Robert Häsler,** Christian Albrechts University of Kiel, Germany
*Mapping the functional epigenome of Ulcerative Colitis in monozygotic twins*

5:00 - 5:30 pm ***Coffee Break***

5:30 - 5:45 pm **Anke Hinney,** University of Duisburg-Essen, Germany
*Childhood ADHD and obesity: Evidence for a common genetic link*

5:45 - 6:00 pm **Ralf Herwig,** Max Planck Institute for molecular Genetics, Berlin, Germany
*An integrated catalogue of genome, methylome and gene expression variations in colon cancer*

**Evening Lecture:**

6:00 - 7:00 pm **Randolph Nesse,** The University of Michigan, Ann Arbor, USA
*Evolutionary Medicine and Molecular Medicine: Synergistic Siblings*

7:00 - 10:00 pm ***Get-Together (Wine, Cheese, Live Music)***

## Thursday, December 13, 2012

### Symposium IV Genomics of Common Disease II

9:00 - 9:30 am ***Keynote*: Hugo A. Katus,** Heidelberg University Hospital, Germany
*Innovations in translational research – Successes of NGFN*

9:30 - 9:45 am **Christina Loley,** University of Lübeck, Germany
*Association of X-chromosomal variants with coronary heart disease: Results from a meta-analysis*

9:45 - 10:00 am **Martin Peifer,** University of Cologne, Germany
*Toward a novel genomics-based taxonomy of lung cancer: The Clinical Lung Cancer Genome Project*

10:00 - 10:15 am **Christel Herold-Mende,** University of Heidelberg, Germany
*Aberrant self-renewal and quiescence contribute to Glioblastoma aggressiveness*

10:15 - 10:45 am ***Coffee Break***

### Symposium V Functional Genomics

10:45 - 11:00 am **Jan Korbel,** The European Molecular Biology Laboratory, Heidelberg, Germany
*Genome sequencing of childhood medulloblastoma brain tumors links chromothripsis with TP53 mutations*

11:00 - 11:15 am **Gerrit Erdmann,** German Cancer Research Center, Heidelberg, Germany
*Secretion of Wnts is required for Wnt/ß-catenin pathway activity in colorectal cancer (CRC) despite APC or ß-catenin mutations*

11:15 - 11:30 am **Sven Lindner,** University Hospital Essen, Germany
*LIN28B induces neuroblastoma and enhances MYCN levels via let-7 suppression*

11:30 - 11:45 am **Sören Westphal,** University Clinic Ulm, Germany
*Human BCL2-associated athanogene 3 (BAG3) mutations lead to dilated cardiomyopathy in zebrafish*

11:45 - 12:00 pm **Zouhair Aherrahrou,** University of Lübeck, Germany
*Cyp17a1 deficient mice display increased body weight, visceral/subcutaneous fat deposition and altered lipid metabolism*

12:00 - 2:00 pm ***Lunch Break and Poster Session II***
12:00 – 1:00 pm odd numbers
01:00 – 2:00 pm even numbers

***Company Satellite Session***
*Life Technologies - Roche Diagnostics - SEQUENOM - Nanostring Technologies*

2:00 - 2:15 pm ***Ceremony: „Annemarie Poustka Poster Award 2012"***
sponsored by Roche Diagnostics GmbH
**Christine Kuch,** Roche Diagnostics Deutschland GmbH
**Hugo A. Katus,** Heidelberg University Clinics, Project Committee of NGFN-Plus / NGFN-Transfer in the Program of Medical Genome Research

## Symposium VI Personalized Medicine

2:15 - 2:45 pm ***Keynote:*** **Rudi Balling,** Luxembourg Centre for Systems Biomedicine, Luxembourg
*Systems approaches to Parkinson´s disease*

2:45 - 3:00 pm **Nicole Teichmann,** University Hospital rechts der Isar, Munich, Germany
*A promising therapy strategy for PDAC: MEK1/2 inhibition with the novel chemotherapeutic drug BAY 86-9766 (RDEA119)*

3:00 - 3:15 pm **Margret Hoehe,** Max Planck Institute for Molecular Genetics, Berlin, Germany
*Haplotype-resolving multiple human genomes: Key to personalized medicine and genome biology*

3:15 - 3:30 pm **Jeanette Erdmann,** University of Lübeck, Germany
*The risk of myoacardial infarction is increased by digenic mutation in GUCY1A3 and CCT7 - identified by exome sequencing in an extended family*

3:30 - 3:45 pm **Brajesh Kaistha,** University of Marburg, Germany
*High-throughput cell-based assays identify Placenta-specifc 8 (Plac8; Onzin) as a key regulator of proliferation and survival in pancreatic cancer cells*

3:45 - 4:00 pm ***Concluding Remarks:*** **Markus Nöthen,** Friedrich-Wilhelms University, Bonn, Spokesperson for the Project Committee of NGFN-Plus / NGFN-Transfer in the Program of Medical Genome Research

4:00 - 4:30 pm ***Closing Coffee***

## Conference Organization

**NGFN Management Office**
c/o German Cancer Research Center - DKFZ
Im Neuenheimer Feld 280, V025, D-69120 Heidelberg

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Dr. Cornelia Depner; Dr. Tanja Jutzi;
Dr. Johanna Lampert; Anita Miehle

## Venue

**German Cancer Research Center - DKFZ**
**Communication Center**
Im Neuenheimer Feld 280
69120 Heidelberg
www.dkfz.de

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NGFN National Genome Research Network

PROGRAM OF MEDICAL GENOME RESEARCH
5TH ANNUAL MEETING OF NGFN-PLUS AND NGFN-TRANSFER

# 5th Annual Meeting of NGFN-Plus and NGFN-Transfer in the Program of Medical Genome Research

**December 11-13, 2012**
**DKFZ, Heidelberg**

www.ngfn-meeting.de

## Scientific Program Committee

Prof. Dr. Jürgen Brosius
University of Münster

Prof. Dr. Martin Hrabě de Angelis
Helmholtz Zentrum München

Prof. Dr. Hugo Katus
Heidelberg University Hospital

Prof. Dr. Peter Lichter
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Prof. Dr. Markus Nöthen
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Prof. Dr. Matthias Riemenschneider
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