

**ORGANIZATION CHART OF THE
MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE IN THE HELMHOLTZ ASSOCIATION**
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**SYSTEMS-WIDE AND
CARDIOVASCULAR DISEASES**

Program Speaker
Prof. Dr. Norbert Hübner

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GENES, CELLS AND CELL-BASED MEDICINE

Speaker Prof. Dr. Nikolaus Rajewsky	
Single Molecule Biophysics probing Quantitative Neuroscience Dr. Melissa Biroi	Computational Regulatory Genomics Prof. Dr. Uwe Ohler
Non-coding RNAs and Mechanisms of Cytoplasmic Gene Regulation Dr. Marina Chekulaeva	Epigenetic Regulation and Chromatin x Architecture Prof. Dr. Ana Pombo
Molecular Oncology Dr. Gaetano Gargiulo	Systems Biology of Gene Regulatory Elements Prof. Dr. Nikolaus Rajewsky
Stem Cell Modeling of Development and Disease Dr. Mina Gouti	Genome instability and somatic mosaicism Dr. Ashley Sanders
Computational methodologies and omic analytics Dr. Laleh Haghverdi	Evolutionary and Cancer Genomics Dr. Roland Schwarz
Genetics and Genomics of Cardiovascular Diseases Prof. Dr. Norbert Hübner	Gene Regulation and Cell Fate Decision in C. elegans Dr. Baris Tursun
Quantitative Developmental Biology Dr. Jan Philipp Junker	Systems Biology of Neural Tissue Differentiation Dr. Robert Zinzen
RNA Biology and Posttranscriptional Regulation Prof. Dr. Markus Landthaler	
Epigenetics and Sex Development Dr. Darío Lupiáñez	
Quantitative Stem Cell Biology Dr. Jakob Metzger	
Bioinformatics of RNA Structure and Transcriptome Regulation Prof. Dr. Irmtraud Meyer	

MOLECULAR PROCESSES AND THERAPIES

Speaker Prof. Dr. Gary Lewin	
Signal Transduction in Development and Cancer Dr. Walter Birchmeier	Allosteric Proteomics Dr. Ilaria Piazza
Signaling Processes of Receptors Dr. Andreas Bock (int.) / Dr. Paolo Anibale (int.)	Signal Transduction in Tumor Cells Prof. Dr. Claus Scheidereit
Structural Biology of Membrane-Associated Processes Prof. Dr. Oliver Daumke	Proteome Dynamics Prof. Dr. Matthias Selbach
Mathematical Cell Physiology Prof. Dr. Martin Falcke	Intracellular Proteolysis Prof. Dr. Thomas Sommer
Molecular Pathways in Cortical Development Dr. Annette Hammes-Lewin	Proteomics and Molecular Mechanisms of Neurodegenerative Diseases Prof. Dr. Erich Wanker
Molecular and cellular basis of behavior Dr. Hanna Hörnberg	Mathematical Modelling of Cellular Processes Prof. Dr. Jana Wolf
Mobile DNA Dr. Zsuzsanna Izsvák	
Physiology and Pathology of Ion Transport Prof. Dr. Thomas Jentsch	
Cellular Neurosciences Prof. Dr. Helmut Kettenmann	
Anchored Signalling Dr. Enno Klußmann	
Cell Differentiation and Tumorigenesis Prof. Dr. Achim Leutz	
Molecular Physiology of Somatic Sensation Prof. Dr. Gary Lewin	

INTEGRATIVE BIOMEDICINE

Speaker Prof. Dr. Holger Gerhardt	
Molecular Biology of Peptide Hormones Prof. Dr. Michael Bader	Experimental Ultrahigh-Field MR Prof. Dr. Thoralf Niendorf
Developmental Biology / Signal Transduction Prof. Dr. Carmen Birchmeier-Kohler	Electrochemical Signaling in Development and Disease Dr. Daniela Panáková
Molecular Immunology and Gene Therapy Prof. Dr. Thomas Blankenstein	Molecular Epidemiology Prof. Dr. Tobias Pischon
Immune Mechanisms and Human Antibodies Dr. Kathrin de la Rosa	Neural Circuits and Behaviour Prof. Dr. James Poulet
Genome Diversification & Integrity Prof. Dr. Michela Di Virgilio	Immune Regulation and Cancer Prof. Dr. Klaus Rajewsky
Host-microbiome Factors in Cardiovascular Disease Dr. Sofia Forslund	Translational Tumorimmunology Dr. Armin Rehm
Integrative Vascular Biology Prof. Dr. Holger Gerhardt	Cardiovascular-Hematopoietic Interaction Dr. Suphansa Sawamiphak
Neuromuscular and Cardiovascular Cell Biology Prof. Dr. Michael Gotthardt	Genetics of Metabolic and Reproductive Disorders Prof. Dr. Mathias Treier
Microenvironmental Regulation in Autoimmunity and Cancer Dr. Uta Höpken	Molecular Cardiovascular Research Prof. Dr. Thomas Willnow
iPS Cell-Based Disease Modeling Dr. Ralf Kühn	Development and Function of Neural Circuits Dr. Niccolò Zampieri
Molecular Genetics of Chronic Inflammation and Allergic Disease Prof. Dr. Young-Ae Lee	
Genetics, Nephrology, Hypertension and Vascular Injury Prof. Dr. Dominik Müller	

COLLABORATIVE TRANSLATIONAL ACTIVITIES

Speaker n.n.	
ECRC - MDC and Charité - Universitätsmedizin	
Director Prof. Dr. Friedemann Paul	
Administrative Management Dr. Gesa Schäfer	
Reproduction Glycoimmunology PD Dr. Sandra Blois	Clinical Neuroimmunology Prof. Dr. Friedemann Paul
Epigenetic Modifications in Neuroblastoma Prof. Dr. Hedwig Deubzer	Molecular Mechanisms in Autoimmune Kidney Disease PD Dr. Adrian Schreiber
Genomic Instability in Pediatric Cancer Dr. Anton G. Henssen	Cardiovascular MRI Prof. Dr. Jeanette Schulz-Menger
Nephrology and Inflammatory Vascular Diseases Prof. Dr. Ralph Kettritz	Neuroimmunology Laboratory PD Dr. Volker Siffrin
Genetics of Congenital Heart Disease PD Dr. Sabine Klaassen	Muscle Research Prof. Dr. Simone Spuler
Biology of Malignant Lymphomas Dr. Stephan Mathas / Dr. Martin Janz	Translational Oncology of Solid Tumors Prof. Dr. Ulrike Stein
Immune Dysregulations in Oncology PD Dr. Il-Kang Na	Immune-Microbial Dynamics in Cardioresenal Disease Dr. Nicola Wilck

translational groups - MDC and Charité - Universitätsmedizin

Hematology, Oncology and Tumor Immunology Prof. Dr. Lars Bullinger	Translational Approaches in Heart Failure and Cardiometabolic Disease Dr. Gabriele Schiattarella
Kidney Cell Engineering Dr. Michael Kaminski	Cancer Genetics and Cellular Stress Responses Prof. Dr. Clemens Schmitt
Mechanism-based Cancer Therapies Dr. Ulrich Keller	Synaptic Transmission and Plasticity Prof. Dr. Dietmar Schmitz
Molecular and Translational Kidney Research Prof. Dr. Kai Schmidt-Ott	Gastrointestinal Barrier, Regeneration and Carcinogenesis Dr. Michael Sigal

translational groups- MDC and BIH

From Cell States to Function Dr. Stefanie Großwendt	Stem Cell Dynamics and Mitochondrial Genomics Dr. Leif Ludwig
Systems Hematology, Stem Cells & Precision Medicine Dr. Simon Haas	Angiogenesis & Metabolism Laboratory Prof. Dr. Michael Potente

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Funding Resources Management DZHK Magdalena Milsch-Hetzig
Central IT Karsten Häcker
Technisches Facility Management Operation Michael Arnold
Technisches Facility Management Construction Ralf Streckwall
Animal Facilities Nadja Daberkow-Nitsche
Library Dr. Dorothea Busjahn

SCIENTIFIC INFRASTRUCTURES

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Bioinformatics Dr. Altuna Akalin	Pluripotent Stem Cells Dr. Sebastian Diecke	Proteomics / Metabolomics Dr. Stefan Kempa	Chemical Biology (with FMP) Dr. Marc Nazaré / Dr. Jens Peter von Kries	Electron Microscopy Dr. Bettina Purfürst	Protein Production & Characterization Dr. Anja Schütz
Genomics (with BIH) Dr. Tatiana Borodina (int.) / Dr. Thomas Conrad (int.)	Image Data Analysis Dr. Kyle Harrington	Transgenics Dr. Ralf Kühn	Magnetic Resonance Prof. Dr. Thoralf Niendorf	Flow Cytometry Dr. Hans-Peter Rahn	Advanced Light Microscopy Dr. Anje Sporbert
Cryo Electron Microscopy (with Charité) Dr. Christoph Diebold	Animal Phenotyping Dr. Arnd Heuser	Proteomics (with BIH) Dr. Philipp Mertins	Biobank Prof. Dr. Tobias Pischon	Organoids Dr. Agnieszka Rybak-Wolf	Systems Biology Imaging Dr. Andrew Woehler