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

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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	Bioinformatics of RNA Structure and Transcriptome Regulation Prof. Dr. Irmaud Meyer
Non-coding RNAs and Mechanisms of Cytoplasmic Gene Regulation Dr. Marina Chekulaeva	Computational Regulatory Genomics Prof. Dr. Uwe Ohler
Molecular Oncology Dr. Gaetano Gargiulo	Epigenetic Regulation and Chromatin x Architecture Prof. Dr. Ana Pombo
Stem Cell Modeling of Development and Disease Dr. Mina Gouti	Systems Biology of Gene Regulatory Elements Prof. Dr. Nikolaus Rajewsky
Computational methodologies and omic analytics Dr. Laleh Hagverdi	Genome instability and somatic mosaicism Dr. Ashley Sanders
Genetics and Genomics of Cardiovascular Diseases Prof. Dr. Norbert Hübner	Evolutionary and Cancer Genomics Dr. Roland Schwarz
Quantitative Developmental Biology Dr. Jan Philipp Junker	Gene Regulation and Cell Fate Decision in <i>C. elegans</i> Dr. Baris Tursun
Biomedical Image Analysis Dr. Dagmar Kainmüller	Systems Biology of Neural Tissue Differentiation Dr. Robert Zinzen
RNA Biology and Posttranscriptional Regulation Prof. Dr. Markus Landthaler	
Epigenetics and Sex Development Dr. Dario Lupiáñez	
Quantitative Stem Cell Biology Dr. Jakob Metzger	

MOLECULAR PROCESSES AND THERAPIES

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

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 Prof. Dr. Thomas Sommer	
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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
Clinical Cardiogenetics Prof. 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 Prof. Dr. Il-Kang Na	Immune-Microbial Dynamics in Cardiorenal 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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Technisches Facility Management Construction Ralf Streckwall
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