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MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE IN THE HELMHOLTZ ASSOCIATION  
CORPORATION UNDER PUBLIC LAW**

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**SYSTEMS MEDICINE AND  
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**GENES, CELLS AND CELL-BASED MEDICINE**

Speaker Prof. Dr. Nikolaus Rajewsky	Vice Speaker Prof. Dr. Markus Landthaler
Single Molecule Biophysics probing Quantitative Neuroscience Dr. Melissa Birel	Bioinformatics of RNA Structure and Transcriptome Regulation Prof. Dr. Imtraud Meyer
Molecular Oncology Dr. Gaetano Gargiulo	Quantitative Stem Cell Biology Dr. Jakob Metzger
Stem Cell Modeling of Development and Disease Dr. Mina Gosti	Computational Regulatory Genomics Prof. Dr. Uwe Ohler
Computational methodologies and omic analytics Dr. Laleh Haghverdi	Epigenetic Regulation and Chromatin Architecture Prof. Dr. Ana Pombo
Genetics and Genomics of Cardiovascular Diseases Prof. Dr. Norbert Hübner	Systems Biology of Gene Regulatory Elements Prof. Dr. Nikolaus Rajewsky
Quantitative Developmental Biology Prof. Dr. Jan Philipp Junker	Chromatin (dys)function in disease Dr. Michael Robson
Biomedical Image Analysis Prof. Dr. Dagmar Kainmüller	Pancreatic Organoid Research and Disease Modelling Prof. Dr. Maike Sander
RNA Biology and Posttranscriptional Regulation Prof. Dr. Markus Landthaler	Genome instability and somatic mosaicism Dr. Ashley Sanders
Computational and developmental biology Dr. Markus Mittenzweig	

**MOLECULAR PROCESSES AND THERAPIES**

Speaker Prof. Dr. Gary Lewin	Vice Speaker Prof. Dr. Katja Simon
Spatial Proteomics Dr. Fabian Coscia	In Situ Structural Biology Prof. Dr. Mikhail Kudryashov
Structural Biology of Membrane-Associated Processes Prof. Dr. Oliver Daumke	Molecular Physiology of Somatic Sensation Prof. Dr. Gary Lewin
Mathematical Cell Physiology Prof. Dr. Martin Falck	Allosteric Proteomics Dr. Ilaria Piazza
Molecular Pathways in Cortical Development Dr. Annette Hammes-Lewin	Cellbiology of Immunity Prof. Dr. Katja Simon
Molecular and cellular basis of behavior Dr. Hanna Hörnberg	Proteome Dynamics Prof. Dr. Matthias Selbach
Mobile DNA Dr. Zsuzsanna Izsáák	Intracellular Proteolysis Prof. Dr. Thomas Sommer
Anchored Signalling Dr. Enno Klüßmann	Proteomics and Molecular Mechanisms of Neurodegenerative Diseases Prof. Dr. Erich Wanker
	Mathematical Modelling of Cellular Processes Prof. Dr. Jana Wolf

**INTEGRATIVE BIOMEDICINE**

Speaker Prof. Dr. Dominik Müller	Vice Speaker Prof. Dr. Michela Di Virgilio
Molecular Biology of Peptide Hormones Prof. Dr. Michael Bader	Hypertension-Mediated End-Organ Damage Prof. Dr. Dominik Müller / Prof. Dr. Ralf Dechend
Developmental Biology / Signal Transduction Prof. Dr. Carmen Birchmeier-Kohler	Experimental Ultrahigh-Field MR Prof. Dr. Thoralf Niendorf
Molecular Immunology and Gene Therapy Prof. Dr. Thomas Blankenstein	Molecular Epidemiology Prof. Dr. Tobias Pischon
Systems biology of cardiovascular and neuronal pathologies Dr. Darja Burina	Neural Circuits and Behaviour Prof. Dr. James Poulet
Immune Mechanisms and Human Antibodies Prof. Dr. Kathrin de la Rosa	Immune Regulation and Cancer Prof. Dr. Klaus Rajewsky
Genome Diversification & Integrity Prof. Dr. Michela Di Virgilio	Translational Tumorimmunology Dr. Armin Rehm
Integrative Vascular Biology Prof. Dr. Holger Gerhardt	Cardiovascular-Hematopoietic Interaction Dr. Suphansa Sawaniphak
Translational Cardiology and Functional Genomics Prof. Dr. Michael Gotthardt	Molecular mechanisms of environment sensing Dr. Yoichiro Sugimoto
Microenvironmental Regulation in Autoimmunity and Cancer Prof. Dr. Uta Höpken	Genetics of Metabolic and Reproductive Disorders Prof. Dr. Mathias Treier
IPS Cell-Based Disease Modeling Dr. Ralf Kühn	Molecular Cardiovascular Research Prof. Dr. Thomas Willnow
Molecular Genetics of Chronic Inflammation and Allergic Disease Prof. Dr. Young-Ae Lee	Development and Function of Neural Circuits Prof. Dr. Niccolò Zampieri

**COLLABORATIVE TRANSLATIONAL ACTIVITIES**

Speaker Prof. Dr. Thomas Sommer	Vice Speaker N.N.
Applied Research of the Visual System Dr. Hanna Zimmermann	Clinical Neuroimmunology Prof. Dr. Friedemann Paul
Epigenetic Modifications in Neuroblastoma Prof. Dr. Hedwig Deubzer	Cardiovascular MRI Prof. Dr. Jeannette Schulz-Menger
Genomic Instability in Pediatric Cancer Dr. Anton G. Henssen	Neuroimmunology Laboratory PD Dr. Volker Siffrin
Inflammatory Vascular Diseases Prof. Dr. Ralph Kettritz PD Dr. Adrian Schreiber	Muscle Research Prof. Dr. Simone Spüler
Clinical Cardiogenetics Prof. Dr. Sabine Klaassen	Translational Oncology of Solid Tumors Prof. Dr. Ulrike Stein
Biology of Malignant Lymphomas Dr. Stephan Mathas / Dr. Martin Janz	Immune-Microbial Dynamics in Cardiovascular Disease Prof. Dr. Sofía Forslund
Immune Dysregulations in Oncology Prof. Dr. Il-Kang Na	Host-microbiome Factors in Cardiovascular Disease Prof. Dr. Sofía Forslund
Tissue Immunity & Neuroinflammation Prof. Dr. Carmen Infante Duarte	

**translational groups - MDC and Charité - Universitätsmedizin**

Hematology, Oncology and Tumor Immunology Prof. Dr. Lars Bullinger	Translational Approaches in Heart Failure and Cardio-metabolic 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	Psychoneuroimmunology Dr. Susanne Wolf
Antiviral Immunity Prof. Dr. Quentin Sattentau	
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
Translational Organ Models Prof. Dr. Sarah Hedtrich	

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Central IT Karsten Häcker
Technical Facility Management Ralf Streckwall
Animal Facilities Nadja Daberkow-Nitsche
Library N.N.
HR-TAC Management Timo Grießmann (int.)

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Bioinformatics Dr. Altuna Akalin	Pluripotent Stem Cells Dr. Sebastian Diecke
Genomics (with BIH) Dr. Jasmine Altmüller (BIH)	Image Data Analysis Deborah Schmidt
Cryo Electron Microscopy (with Charité) Dr. Christoph Diebold (Charité)	Animal Phenotyping Dr. Arnd Heuser

Proteomics / Metabolomics Dr. Stefan Kempa	Chemical Biology (with FMP) Dr. Marc Nazaré Dr. Jens Peter von Kries	Electron Microscopy Dr. Séverine Kunz	Protein Production & Characterization Dr. Anja Schütz
Transgenics Dr. Ralf Kühn	Magnetic Resonance Prof. Dr. Thoralf Niendorf	Flow Cytometry Dr. Hans-Peter Rahn	Advanced Light Microscopy Dr. Anja Spörkel
Proteomics (with BIH) Dr. Philipp Mertins	Biobank Prof. Dr. Tobias Pischon	Organoids Dr. Agnieszka Rybak-Wolf	Systems Biology Imaging Dr. Robert Zinzen