

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

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**SYSTEMS MEDICINE AND
CARDIOVASCULAR DISEASES**

Program Speaker
Prof. Dr. Norbert Hübner

Vice Speaker
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GENES, CELLS AND CELL-BASED MEDICINE

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| Speaker Prof. Dr. Nikolaus Rajewsky | Vice Speaker Prof. Dr. Markus Landthaler |
| Single Molecule Biophysics probing Quantitative Neuroscience Dr. Melissa Biroi | Bioinformatics of RNA Structure and Transcriptome Regulation Prof. Dr. Irmtraud 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 Haghighi | 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 C. elegans Dr. Baris Tursun |
| Biomedical Image Analysis Dr. Dagmar Kalnmüller | Systems Biology of Neural Tissue Differentiation Dr. Robert Zinnen |
| 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

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| Speaker Prof. Dr. Gary Lewin | Vice Speaker Prof. Dr. Oliver Daumke |
| Signal Transduction in Development and Cancer Dr. Walter Birchmeier | In Situ Structural Biology Dr. Mikhail Kudryashov |
| Spatial Proteomics Dr. Fabian Coscia | Cell Differentiation and Tumorigenesis Prof. Dr. Achim Leutz |
| 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 Falcke | Allosteric Proteomics Dr. Iaria 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 Izsvák | Intracellular Proteolysis Prof. Dr. Thomas Sommer |
| Physiology and Pathology of Ion Transport Prof. Dr. Thomas Jentsch | Proteomics and Molecular Mechanisms of Neurodegenerative Diseases Prof. Dr. Erich Wanker |
| Cellular Neurosciences Prof. Dr. Helmut Kettenmann | Mathematical Modelling of Cellular Processes Prof. Dr. Jana Wolf |
| Anchored Signaling Dr. Enno Klüßmann | |

INTEGRATIVE BIOMEDICINE

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| Speaker Prof. Dr. Michela Di Virgilio | Vice Speaker Prof. Dr. Holger Gerhardt |
| Molecular Biology of Peptide Hormones Prof. Dr. Michael Bader | Genetics, Nephrology, Hypertension and Vascular Injury Prof. Dr. Dominik Müller |
| 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 | Electrochemical Signaling in Development and Disease Dr. Daniela Pankovics |
| Immune Mechanisms and Human Antibodies Dr. Kathrin de la Rosa | Molecular Epidemiology Prof. Dr. Tobias Pischon |
| Genome Diversification & Integrity Prof. Dr. Michela Di Virgilio | Neural Circuits and Behaviour Prof. Dr. James Poulet |
| Host-microbiome Factors in Cardiovascular Disease Dr. Sofia Forslund | Immune Regulation and Cancer Prof. Dr. Klaus Rajewsky |
| Integrative Vascular Biology Prof. Dr. Holger Gerhardt | Translational Tumorimmunology Dr. Armin Rehm |
| Neuromuscular and Cardiovascular Cell Biology Prof. Dr. Michael Gotthardt | Cardiovascular-Hematopoietic Interaction Dr. Suphansa Sawamiphak |
| Microenvironmental Regulation in Autoimmunity and Cancer Dr. Uta Höpken | Genetics of Metabolic and Reproductive Disorders Prof. Dr. Matthias 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 Dr. Niccolò Zampieri |

COLLABORATIVE TRANSLATIONAL ACTIVITIES

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| Speaker Prof. Dr. Thomas Sommer | Vice Speaker n.n. |
| ECRC - MDC and Charité - Universitätsmedizin | |
| 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 Siffert |
| Clinical Cardigenetics 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 Cardiovascular Disease Dr. Nicola Wilck |

translational groups - MDC and Charité - Universitätsmedizin

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| 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

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| 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 |

ADMINISTRATION

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| People and Culture n.n. |
| Finances Katrín Rosswog |
| Purchasing and Logistics Manon Szabó |
| Legal Department Kirstin Bodensiek |
| Strategic Cooperations & Research Funding Dr. Almut Caspary |
| Technology Transfer Dr. Gerd Müller (int.) |
| Funding Resources Management DZHK Magdalena Mißlich-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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|---|--|---|---|--|--|
| Scientific Infrastructure Board Prof. Dr. Holger Gerhardt Prof. Dr. Matthias Selbach Dr. Jan Philipp Junker (int.) | Executive Management Dr. Jutta Steinkötter | | | | |
| Bioinformatics Dr. Altuna Akalin | Pluripotent Stem Cells Dr. Sebastian Diecke | Proteomics / Metabolomics Dr. Stefan Kempa | Chemical Biology (with FMP) Dr. Marc Nazare / Dr. Jens Peter von Kries | Electron Microscopy Dr. Séverine Kunz | Protein Production & Characterization Dr. Anja Schütz |
| Genomics Dr. Tatiana Borodina (int.) / Dr. Thomas Conrad (int.) | Image Data Analysis Prof. Dr. Kyle Harrington | Transgenics Dr. Kyle 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 Dr. Philipp Mertins | Biobank Prof. Dr. Tobias Pischon | Organoids Dr. Agnieszka Rybak-Wolf | Systems Biology Imaging Dr. Andrew Woehler |