

**ORGANIZATION CHART OF THE
MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE IN THE HELMHOLTZ ASSOCIATION**

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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 Birol	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 Haghverdi	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 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	Vice Speaker Prof. Dr. Oliver Daumke
Signal Transduction in Development and Cancer Dr. Walter Birchmeier	in Situ Structural Biology Dr. Mikhail Kudryashev
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. 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 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
Psychoneuroimmunology Dr. Susanne Wolf	Mathematical Modelling of Cellular Processes Prof. Dr. Jana Wolf
Anchored Signalling Dr. Enno Klüßmann	

INTEGRATIVE BIOMEDICINE

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 Panáková
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. 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 Dr. Niccolò Zampieri
Systems biology of cardiovascular and neuronal pathologies Dr. Daria Bunina	Molecular mechanisms of environment sensing Dr. Yoichiro Sugimoto

COLLABORATIVE TRANSLATIONAL ACTIVITIES

Speaker Prof. Dr. Thomas Sommer	Vice Speaker n.n.
ECRC - MDC and Charité - Universitätsmedizin	
Applied Research of the Visual System Dr. Hanna Zimmermann	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 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
Gastrointestinal Barrier, Regeneration and Carcinogenesis Dr. Michael Sigal	

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Technisches Facility Management Operation Michael Arnold
Technisches Facility Management Construction Ralf Streckwall
Animal Facilities Nadja Daberkow-Nitsche
Library N.N.

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

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