MDC INNOVATION PIPELINE | SEPT 2026

MAX DELBRÜCK CENTER

Therapeutic programs

Program	Indication	Modality	Mechanism of Action	Discovery	Hit to lead	Lead optimization	Pre-clinical	Clinical
Oncology								
T-Knife	Solid tumors	Cell therapy	PRAME and MAGE-A1 TCR-T cell therapies	●	●	●	●	●
Cartemis	Lymphoma, multiple myeloma	Cell therapy	CXCR5 and BCMA CAR T-cell therapies	●	●	●	●	●
Captain T Cell	Solid tumors	Cell therapy	Autologous MAGE-A4-TCR-T cell therapy, allogeneic TCR-T cell platform	●	●	●	●	
NicloCOMB	Metastatic cancers	Small molecule	Niclosamide and statins combination	●	●	●		
Metastrict	Metastatic cancers	Small molecule	Novel MACC1 and S100A4 inhibitors	●				
SensitCLK	Resistant cancers	Small molecule	Selective CLK2/4 inhibitors reinforcing chemotherapy and radiotherapy	●	●			
MITDX	Resistant cancers	Microprotein	XIAP-targeting microprotein therapy to overcome treatment resistance	●	●			
Autoimmune								
BCMA antibody	Various disorders	Antibody	Humanized antibodies directed against CD269	●	●			
PR3delete	ANCA-associated vasculitis	Gene therapy	Ex vivo CRISPR/Cas9 PR3 genome editing of CD34+ HSPCs	●	●			
Pain								
Allothera	Neuropathic pain	Small molecule	STOML3 inhibitors	●	●			
Muscular disorders								
Myopax	Muscle wasting, dystrophies	Cell therapy	Human Satellite cell derived muscle stem cells	●	●	●	●	●
Others								
Trypto Therapeutics	Cardiovascular, respiratory disorders	Small molecule	First-in-class xanthine-derived TPH1 inhibitors	●	●	●	●	
Omeicos	Cardiovascular, inflammatory, mitochondrial diseases	Lipids	First-in-class metabolically stable epoxyeicosanoid analogs	●	●	●	●	●

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● Already partnered Spin-off Project ● Asset available for partnering

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Program	Technology	Discovery	POC	Prototype	Product/market
Diagnostics					
Epi-C	Single molecule multi-omic profiling of circular extrachromosomal DNA (ecDNA) driven cancers	●			
immPRINT	Blood-based biomarker for functional immune fitness and DNA repair competence	●			
CircRNA	Diagnosing neurodegenerative disease by detection of circular RNAs in bodily fluids	●	●	●	
MiPath	Gene-targeting qPCR for microbiome-based precision nutrition	●			
Drug/biomarker discovery platforms					
DeeP-DRiP	Predictive, reproducible, and scalable human brain organoid screening with systems-level readouts	●	●		
BrainAge	Aged, patient-derived brain organoids enabling translational drug screening for age-related brain diseases	●			
NMJCare	A predictive human 2.5D neuromuscular platform for drug screening	●	●		
Pheno-Target	Phenotypic drug discovery platform using synthetic locus control regions (sLCRs) in 3D multicellular tumor models	●	●		
Strand-SEQ	AI-assist digital karyotypes for drug target discovery and diagnostics for IBD and colorectal cancer	●			
Thera-GAM	A 3D genomics platform for therapeutic target discovery and disease detection	●	●		
Protein production					
CHOboost	Increase protein expression and secretion by co-expressing the RNA-binding protein HDLBP	●	●		
Genome engineering					
Sleeping Beauty	Gene transfer transposon system, activity-enhanced transposase variants with improved safety	●	●	●	●
Spacer-nick	Precise CRISPR technology with improved safety in hematopoietic stem/progenitor cells and T cells	●			
HIROS	CRISPR technology for DNA manipulation and repair in non-dividing cells	●			
SynTra	Automated DNA production platform of single stranded synthetic DNA transposons	●			
Omics, imaging and digital tools					
FLAM-Seq	Genome-wide full-length mRNA and Poly(A)-Tail sequencing in one read	●			
OmicPrep	High-throughput, ultra-low-volume multiomic sample preparation with integrated metabolite derivatization	●			
CLUSTER	A bio-orthogonal self-labelling system for advanced imaging	●			
MALVA	Ultrafast, reference-free interrogation of petabyte-scale single-cell and spatial transcriptomics data	●	●	●	
ARCAS	AI for precision oncology: multi-level deep learning approach integrating clinical, genomic, and pharmacological data	●	●		
rolv	Multi-modal, multi-agent AI system for biological data analysis	●	●		

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