Disruptive Technologies in Pharma Framework

R&D-Focused Technologies

Early Diagnostics

Biomarkers Discovery	Analytical Algorithms	Population Screening Approaches
At-Home Testing	Digital Avatar	Biobanking

Preclinical Research Optimization

AI in Target Discovery	Lab-on-a-Chip Technologies	AI in Drug Discovery
Organoids and Organ-on-a-chip	Single Cells Screening and Sequencing	Automated Research Facilities and Robotics

Clinical Research Optimization

AI-Based Population Screening	Patient Selection Optimization	Patient Engagement Optimization
Complex Data Management	Technology and Digital Optimization	Metabolism Tracking

New Modalities

RNA-Based Therapy	Antibody-Drug Conjugates	Peptide Therapeutics
Nanobodies	Protein Degraders	CRISPR-Based Gene Therapy

Therapy-Focused Technologies

Regenerative Medicine

Cell Therapy	Gene Therapy	Exosomes
Small and Large Molecules	Stem Cells	Tissue Engineering

Oncology Treatment

Cancer Vaccines	CAR-T Cell Therapy	Target Delivery Systems (Nanoparticles)
Drug Repurposing	AI-Based Target Modeling	Virtual Reality Rehabilitation

Personalized Medicine

Public Health	Medical Data Management	Treatment Efficiency Tracking
Reproductive Medicine	Supplements	Prognostic Screening and Risk Assessment

Robotics and Automation Technologies

Bioprinting Robots	High Throughput Screening	Robotic Laboratories
Collaborative Robots	Surgical Robots	Care Robots