

PharmaX Next Conference

International Conference on AI, Biotechnology & Digital Transformation in Pharma

11-12 March 2027 | Rome, Italy | pharmaxnext.com

DAY 01 Thursday, 11 March 2027

AI · BIOTECHNOLOGY · PRECISION MEDICINE

— 08:30 – 09:00 · Registration & Welcome Coffee —

09:00 – 09:20

KEYNOTE

Opening Ceremony & Conference Keynote

Setting the stage for innovation across pharma, AI, biotechnology, and global health.

09:25 – 09:50

TALK + Q&A

AI-Driven Drug Discovery: From Molecule to Market

How generative AI and LLMs are compressing decade-long R&D timelines to under three years.

09:50 – 10:15

TALK + Q&A

The Agentic AI Revolution in Healthcare Operations

Autonomous agents managing clinical workflows, patient triaging, and real-time diagnostic support.

10:15 – 10:40

TALK + Q&A

Precision Oncology in the Post-Genomic Era

Liquid biopsies, multi-omic profiling, and personalised therapy selection for complex cancers.

— 10:40 – 11:00 · Coffee Break & Networking —

11:00 – 11:25

TALK + Q&A

Quantum Computing in Molecular Simulation

Simulating protein folding and drug-target interactions at unprecedented scale using quantum algorithms.

11:25 – 11:50

TALK + Q&A

The Next Frontier of mRNA Therapeutics

Beyond vaccines — mRNA-based cancer immunotherapy, rare disease treatment, and regenerative medicine.

11:50 – 12:15

TALK + Q&A

Digital Biomarkers & Wearable Health Ecosystems

Real-world evidence through smartwatches and continuous biosensors for decentralised clinical trials.

12:15 – 12:40	<p>TALK + Q&A</p> <p>Blockchain for Pharmaceutical Supply Chain Integrity</p> <p>End-to-end traceability and combating counterfeit drugs through decentralised ledger systems.</p>
— 12:40 – 13:45 · Networking Lunch —	
13:45 – 14:10	<p>TALK + Q&A</p> <p>Synthetic Biology: Engineering Life for Therapeutics</p> <p>Programmable cells, gene circuits, and engineered microbiomes as next-generation drug delivery vehicles.</p>
14:10 – 14:35	<p>TALK + Q&A</p> <p>Federated Learning for Secure Multi-Site Clinical Data</p> <p>Privacy-preserving AI training on distributed hospital data without centralising sensitive patient records.</p>
14:35 – 15:00	<p>TALK + Q&A</p> <p>Global Regulatory Harmonisation in the AI Age</p> <p>EMA, FDA, and ICH frameworks adapting to algorithm-based medical devices and AI-generated evidence.</p>
15:00 – 15:25	<p>TALK + Q&A</p> <p>Longevity Science: Pharma's Emerging Frontier</p> <p>Senolytics, epigenetic reprogramming, and anti-ageing pipelines moving from labs into clinical settings.</p>
— 15:25 – 15:45 · Afternoon Coffee Break —	
15:45 – 16:10	<p>TALK + Q&A</p> <p>Decentralised Clinical Trials: Patient-Centric by Design</p> <p>Remote monitoring, e-consent, and home-based visits reshaping global trial recruitment and retention.</p>
16:10 – 16:35	<p>TALK + Q&A</p> <p>Psychedelic-Assisted Therapy: Clinical Evidence & Market Outlook</p> <p>Psilocybin, ketamine, and MDMA therapies entering mainstream psychiatry — regulatory pathways and scale.</p>
16:35 – 17:00	<p>AWARDS</p> <p>PharmaXNext Awards Ceremony — Day 1</p> <p>Recognising outstanding contributions in pharmaceutical innovation, research, and digital transformation.</p>
— 17:00 – 18:30 · Evening Networking Reception —	

<p>09:00 – 09:20</p>	<p>KEYNOTE Day 2 Opening: Shaping the Future of Global Health A forward-looking address bridging policy, innovation, and sustainability across pharma and biotech.</p>
<p>09:25 – 09:50</p>	<p>TALK + Q&A LLMs as Clinical Decision Support Tools GPT-class models in radiology, diagnosis assistance, and patient communication — evidence and ethics.</p>
<p>09:50 – 10:15</p>	<p>TALK + Q&A Advanced Drug Delivery: Nanoparticles, Exosomes & Beyond Engineering next-generation carriers for targeted delivery to tumours, the CNS, and gene therapy payloads.</p>
<p>10:15 – 10:40</p>	<p>TALK + Q&A Cell & Gene Therapy: Scaling from Bench to Bedside Manufacturing challenges, cost reduction strategies, and reimbursement models for one-time curative therapies.</p>
<p>— 10:40 – 11:00 · Coffee Break & Networking —</p>	
<p>11:00 – 11:25</p>	<p>TALK + Q&A GLP-1 Agonists & the Metabolic Disease Pipeline Beyond weight loss — cardiovascular, renal, and neurological benefits driving the next wave of blockbusters.</p>
<p>11:25 – 11:50</p>	<p>TALK + Q&A Sustainability & Green Chemistry in Pharma Manufacturing Solvent reduction, continuous flow chemistry, and net-zero manufacturing targets across the value chain.</p>
<p>11:50 – 12:15</p>	<p>TALK + Q&A Antimicrobial Resistance: Innovation Strategies for a Silent Pandemic Phage therapy, novel antibiotic classes, and AI-powered pathogen surveillance in the fight against AMR.</p>
<p>12:15 – 12:40</p>	<p>TALK + Q&A Digital Health Regulation: EU AI Act & Medical Device Regulation Compliance pathways for AI-powered medical devices and SaMD under Europe's evolving regulatory landscape.</p>
<p>— 12:40 – 13:45 · Networking Lunch —</p>	

13:45 – 14:10	<p>TALK + Q&A</p> <p>Neurotechnology & Brain-Computer Interfaces in Medicine</p> <p>Implantable and non-invasive BCIs for neurological disorders, mental health, and cognitive augmentation.</p>
14:10 – 14:35	<p>TALK + Q&A</p> <p>AI-Powered Pathology & Imaging Diagnostics</p> <p>Foundation models for histopathology and radiology achieving expert-level diagnostic accuracy at scale.</p>
14:35 – 15:00	<p>TALK + Q&A</p> <p>Microbiome Therapeutics: The Next Drug Class</p> <p>Live biotherapeutic products, FMT, and postbiotics entering regulatory-approved pipelines globally.</p>
15:00 – 15:25	<p>TALK + Q&A</p> <p>HealthTech Investment Landscape: Where Capital Is Flowing in 2027</p> <p>Venture, private equity, and strategic pharma investment trends across AI, biotech, and digital health.</p>
— 15:25 – 15:45 · Afternoon Coffee Break —	
15:45 – 16:10	<p>TALK + Q&A</p> <p>Global Health Equity: Bridging the Innovation Access Gap</p> <p>Open-science models, tiered pricing, and technology transfer strategies for emerging-market healthcare.</p>
16:10 – 16:35	<p>TALK + Q&A</p> <p>The Future of Pharmaceutical AI: What Comes After 2027?</p> <p>Forecasting the next decade: autonomous drug design, AI-native CROs, and the fully digital clinical trial.</p>
16:35 – 17:00	<p>AWARDS</p> <p>Closing Keynote & PharmaXNext Awards Ceremony — Day 2</p> <p>Closing reflections, innovation highlights, and the prestigious PharmaXNext Excellence Awards.</p>
— 17:00 – 18:00 · Farewell Networking & Conference Close —	