

e-MetaBio®

“All in one” platform

- ✓ Increased biosample value
- ✓ Accelerated research discoveries
- ✓ Improved patient outcomes

metabio
Digital Innovations for Life Sciences

e-MetaBio® is a centralized, modular platform that captures, integrates, and tracks **biosample-related data** across the entire usage chain, from patient enrollment to research utilization.

Built for interoperability, it connects seamlessly with hospital IT systems, Laboratory Information Management Systems (LIMS), and biobank infrastructures, while embedding advanced capabilities such as AI-driven data curation, IoT-enabled sample tracking, and GDPR/HIPAA-compliant consent management.

Through a unified and flexible environment for biomedical data, e-MetaBio®:

- ✓ eliminates information silos,
- ✓ streamlines complex workflows,
- ✓ and ensures that valuable data is consistently collected, securely preserved, and optimally leveraged.

At its foundation, the platform functions as a **dynamic data hub** that consolidates clinical records, patient information, biospecimen metadata, and research outputs into a unified ecosystem.



By applying **ontological harmonization and automated data validation**, e-MetaBio® guarantees semantic integrity, reproducibility, and accuracy, independent of the underlying source system or storage infrastructure.



Its scalable architecture supports **both on-premise and cloud deployments**, making it equally suited for individual biobanks, hospital networks, or multinational research consortia.



Robust **digital rights management (DRM)** and **dynamic real-time tiered consent (DRT-Consent) frameworks** provide access control, ensuring transparent governance and ethical use of patient and biospecimen data.



Complementing these features, **advanced analytics and KPI dashboards** allow institutions to monitor performance, identify bottlenecks, and drive continuous process optimization.



e-MetaBio® serves as the central node of the broader digital ecosystem of Metabio, which includes specialized sub-platforms tailored to specific domains:

e-MetaBank®

Comprehensive biobank solution for biospecimen collection, processing, storage, logistics, and annotation.

e-MetaRes®

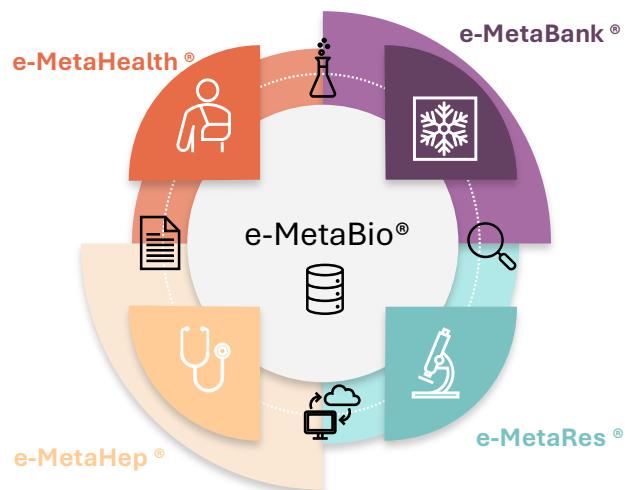
Platform for accredited research entities, enabling multi-criteria queries, protocol annotation, analytics, and dynamic consent.

e-MetaHep®

Standards-based EMR for hospitals and healthcare institutions with full interoperability and real-time consent.

e-MetaHealth®

Patient-centered platform for real-world data capture, disease management, and dynamic e-consent.



Together, these platforms create a holistic, multidimensional digital environment that fosters collaboration, accelerates discovery, and maximizes the translational impact of biomedical research.

By aligning with internationally recognized standards in biobanking, information security, and quality management, e-MetaBio®:

- ✓ provides organizations with a comprehensive framework that supports sustainable growth and regulatory compliance,
- ✓ strengthens supplier and partner relationships through transparent and traceable data flows,
- ✓ enhances the quality and reliability of biosample-derived products,
- ✓ and reduces operational inefficiencies through process automation.

This translates into greater reproducibility of research outcomes, lower risks, improved customer and stakeholder experiences, and a clear competitive advantage in the evolving biomedical landscape.

Indicative stakeholder-specific advantages of the e-MetaBio® sub-platforms are:

Stakeholder	Advantage
Biobank	<ul style="list-style-type: none">✓ Added biospecimen value✓ Strengthened market competitiveness
Researcher	<ul style="list-style-type: none">✓ Greater time efficiency✓ Lower error correction effort ratio
Healthcare provider	<ul style="list-style-type: none">✓ Increased value in personalized care✓ Improved cost efficiency
Patient	<ul style="list-style-type: none">✓ Broader participation in research✓ Lower healthcare costs

With e-MetaBio®, you are not just choosing a service; you are choosing a partnership built on the bedrock of trust and excellence.

For more details on each sub-platform you may visit their respective website locations:

e-MetaBank®: <https://metab.io/solutions?target=eMetaBank>

e-MetaRes®: <https://metab.io/solutions?target=eMetaRes>

e-MetaHep®: <https://metab.io/solutions?target=eMetaHep>

e-MetaHealth®: <https://metab.io/solutions?target=eMetaHealth>

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