

PRECISION MEDICINE

Unique population-scale data assets enabling precision medicine and biomarker discovery



>45 000 biobank samples

Latvia's National Population Biobank holds over 45,000 individual samples, including unique population, endocrinology and oncology and many other collections, representing ~1.9% of the national population.



550+ long-read whole-genome sequences

All samples have had short-read sequencing performed, and many have been long-read, capturing continuous stretches of DNA spanning thousands of base pairs.



PMNET Forum in Riga

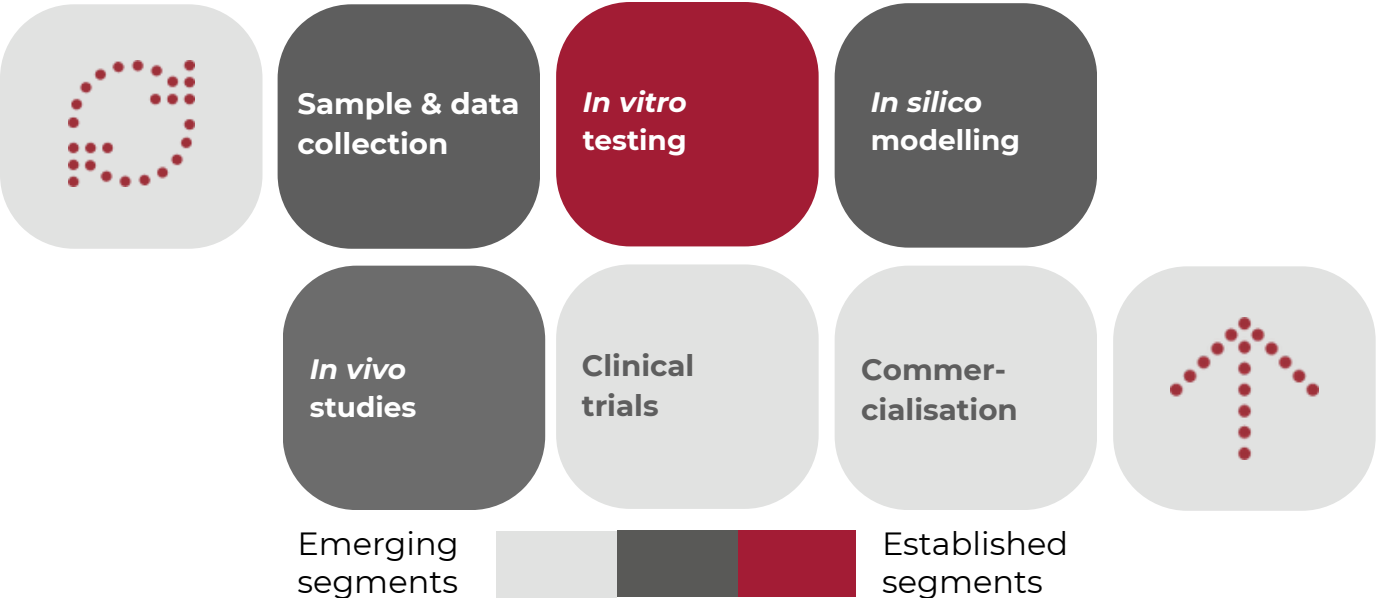
Riga hosts the international Precision Medicine Networking Forum, connecting European experts and industry leaders in biomarker discovery and clinical translation



Precision Medicine Centre in Paediatrics

Latvia's **Centre of Excellence for Paediatric Precision Medicine** provides infrastructure for clinical research, genomic analysis, and data integration for personalised care

Precision medicine value chain



Leading companies

Cellbox Labs



LONGENE SIS



Applied precision medicine companies built on genomics, health data and clinical practice

Cellbox Labs

Cellbox Labs

3D cell culture and organoid solutions for drug testing and disease modelling, supporting more accurate preclinical research and personalised medicine approaches.



LongGenesis

Digital platform for patient data and consent management, enabling structured access to clinical and genomic data for research and precision medicine initiatives.



GenEra

Genomic and molecular diagnostic services used in clinical practice, biomarker development and population-based precision medicine projects.

Relevant Education Institutions

NIRI NATIONAL INSTITUTE
OF RESEARCH AND INNOVATION



PAULA STRADIŅA
KLINISKĀ UNIVERSITĀTES
SLIMNICA



RĪGA STRADIŅŠ
UNIVERSITY



UNIVERSITY OF LATVIA
INSTITUTE OF CLINICAL
AND PREVENTIVE
MEDICINE

aslimnica
RĪGAS AUSTRUMU KLINISKĀ UNIVERSITĀTES SLIMNICA

PMPC

Precision
Medicine in
Pediatric Care



Children's
University
Hospital
Latvia

Genomics and clinical research infrastructure supporting precision medicine translation

National Institute of Research and Innovation

Coordinates genomic sequencing, biomarker identification and molecular diagnostics.

Riga Stradins University

Conducts research in clinical genomics, oncology and data-driven medicine.

BioPhoT (2023–2032)

Long-term biomedicine innovation platform providing structured funding and support from research to commercialisation, with €12.8 million available until 2026.

Riga East University Hospital & Children's University Hospital

host clinical infrastructure for paediatric and oncology-related precision medicine, integrating genetic data in patient treatment.