

National Biobank

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National Biobank Latest News

Recently, the union Minister of State (Independent Charge) for Science & Technology inaugurated the state-of-the-art Phenome India “National Biobank” at the CSIR-Institute of Genomics and Integrative Biology (IGIB).

About National Biobank

- It will serve as the backbone of a **nationwide cohort study**, collecting comprehensive genomic, lifestyle, and clinical data from 10,000 individuals across India.
- It is tailored to **capture the country's unique diversity**—across geography, ethnicity, and socio-economic backgrounds.

- It is designed to be a long-term, data-rich study tracking the health trajectories of individuals over several years.
- It will help scientists uncover disease patterns, gene-environment interactions, and response to therapies—all within the Indian context.
- It is launched under the **Phenome India Project**.
- Researchers believe the initiative will aid **early diagnosis, improve therapeutic targeting**, and bolster the fight against complex diseases such as diabetes, cancer, cardiovascular ailments, and rare genetic disorders.

Key Facts about Phenome India Project

- It is officially named **Phenome India-CSIR Health Cohort Knowledgebase** (PI-CheCK) is an initiative launched by the **Council of Scientific and Industrial Research** (CSIR) on December 7, 2023.
- **Objective:** The main objective of the project is to **develop India-specific risk prediction models for cardio-metabolic diseases** including diabetes, liver diseases, and cardiac diseases.
- It is **India's first-ever pan-India longitudinal health monitoring** study focused specifically on cardio-metabolic health.
- Participants include around 10,000 individuals—primarily CSIR employees, pensioners, and their spouses—from across 17 states and 24 cities.
- Collected data includes clinical questionnaires, lifestyle and dietary habits, anthropometric measurements, imaging and scanning data, and extensive biochemical and molecular data.

Source: PIB

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