ATP BR
ATLAS TUMORAL DA POPULAÇÃO BRASILEIRA

# Cancer in Brazil needs data from Brazil.

A national initiative that maps the molecular profile of cancer in Brazilians and shares these data responsibly.

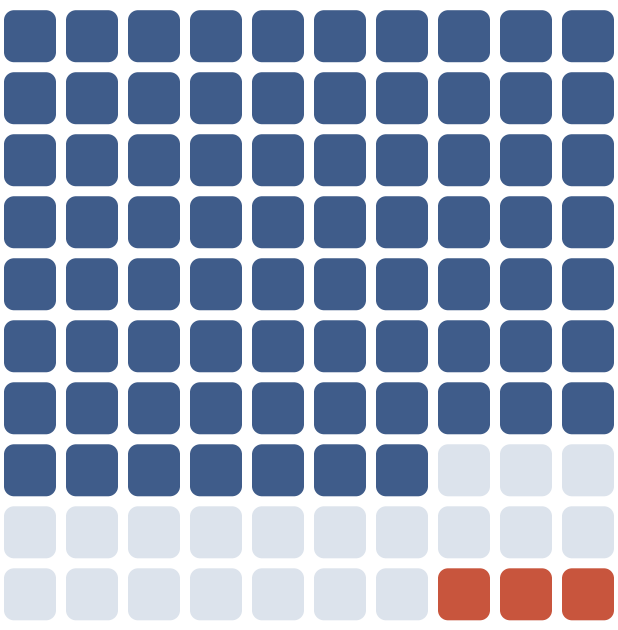
**Ministry of Health + CNPq**
since Dec 2023

**INCA + Brazilian Cancer Genome Consortium**

**Clinical + multi-omic**
genome · transcriptome · epigenome

01 · THE PROBLEM

## Cancer genomics is not diverse



TCGA ■ 77% white ■ 3% Latino

**PCAWG / ICGC-TCGA**

**76%** European ancestry

**1%** Latin American

**AACR Project GENIE**

**72%** white

**57%** of the expected Hispanic representation

**NCI PDMR**

**75%** European ancestry

**<1%** Latin American

Sources: Spratt 2016· Campbell 2020· Pugh 2022· Cheung 2023· Molina-Aguilar 2023

**Risk, prognostic and treatment-response variants differ between populations.**
Poorly representative data lead to less effective decisions for Brazilians.

02 · THE OPPORTUNITY

## Brazilian diversity matters

INDIGENOUS | AFRICAN | EUROPEAN | OTHER

**8.7 M**
novel variants in 2,723 Brazilian genomes
Nunes 2025

**17-25%**
of hereditary variant carriers are missed by testing criteria
de Oliveira 2022

↑
pathogenic variants more frequent than in international databases
Boroni 2026

**275**
patients with tumor-germline WGS across all 5 regions (BGMO)
Ferreira 2026

Standardize → Integrate → Govern → Share → Reuse

OUR MISSION

**Expanding Brazilian representation in cancer research, towards precision medicine in SUS, Brazil's public health system.**

03 · THE PLATFORM

## The entire data life cycle

Submission · Secure storage · Harmonization · Reproducible analyses · Visualization · Controlled access · Governance

AUDIENCE: Researchers · Institutions · Bioinformaticians · Managers · Collaborators

Start here: the reading path for each profile ↗

04 · TRUST

## Quality and privacy

FAIR PRINCIPLES

**F** Findable
**A** Accessible
**I** Interoperable
**R** Reusable

3 MINIMUM CRITERIA

- High-quality sequencing
- Informed consent
- Minimum clinical metadata

**LGPD**

- De-identified at source
- No direct identifiers
- Keys stay at the institution
- Pseudonymized: protected as sensitive data

Governance ↗ Usage policies ↗

www.atpbr.com.br atpbr@inca.gov.br
Boroni et al., Lancet Reg Health Am 2026

INCA · SUS · MINISTÉRIO DA SAÚDE

Version 0.1 · November 2026

CNPq Conselho Nacional de Desenvolvimento Científico e Tecnológico