ONT Experiment Registry Framework

Comprehensive Metadata Management for Nanopore Sequencing

REGISTRY FRAMEWORK

INPUT

MinION · PromethION · Flongle

165 Experiments

POD5 / BAM / FASTQ

Aug 2020 - Dec 2025

Registry Framework Process

1. Extract
MinKNOW
BAM Headers

→

2. Infer
Pattern
Matching

→

3. Validate
QC Metrics
Provenance

100%

Metadata Completeness

Categories

Pla · Res · Hum · PGx

95%
R10.4.1

OUTPUT

- Standardized Schema
- Quality Benchmarks
- Provenance Tracking
- FAIR Compliance

14.0	4,828 bp	320,738	82%	90%
Median Q-Score	Median N50	Median Reads	dorado	hac model