



Traditional

Selective

Some bias

Improved

Automated input / output

No bias

We have developed new advances over the traditional best-practices in genomics. There are 5 distinct outputs from the new genomics protocols compared to a single output of traditional clinical/research genomics.

(0) The traditional approach focuses on annotation and filtering to find a genetic cause of disease which often allows strong selective bias resulting in false positives. The new approach relies on an automated and non-biased approach that is uniform across all patients.

(1) A patient-specific clinical genetics report using standardised guidelines and currently the best-practice.

(2) The same pipeline outputs evidence supporting new disease mechanisms for research.

(3) The same pipeline outputs cohort-level data for statistical genomics, machine learning and deep learning projects.

(4) Results of those cohort-level projects included database-ready content including metadata added during the pipeline.

(5) Database ready results are suitable for clinical data warehouse for reporting and reuse.