

Tools

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Statistical Methods for Next Generation Sequencing

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Unix shell scripting

(BASH)

cut, uniq, wc, sed, awk, grep

redirection

These tools are extremely fast.

Software packages

An aligner (Bowtie, BWA, Bowtie 2)

Samtools

Picard

Some browser (IGB?)

R packages

Rsamtools, ShortRead

IRanges, GenomicRanges

Biostrings, BSgenome

GenomicFeatures, VariantAnnotation

DESeq, baySeq, edgeR, cqn

Gviz (replacing GenomeGraphs)