.FASTA/FASTQ Read Sequences

The Flux Simulator uses FASTA/FASTQ sequences at different points; for the (optional) input of a genomic sequence to (optinally) produce read sequences. Genomic references are expected to provide one single FASTA file per reference sequence (i.e., chromosome, scaffold, etc.), as described in the Sequencing Section.

The read sequence output is a multi-FASTA file, where each fasta block contains a description line that starts with a ">" ("greater than") symbol and the following one or multiple lines containing the read sequence. If a quality/error-model is provided, the very related FASTQ file format is produced, where the ">" identifier is replaced by the "@" symbol, and a quality block is following the fasta block, which uses a "+" separator and subsequently provides the qualities of the read sequences. The description line contains the read identifier as described in the Sequencing Section.

Example

FASTQ

FASTA