

# Step

**Preprocessing  
and Host  
Removal**

**Input:**  
.fast5

GPU  
Basecalling

Guppy HAC  
Input: .fast5  
Output: .fastq

Demultiplex &  
Adaptor Removal

SISPA Primer  
Removal

Q-Score Filter

Length Filter

Guppy\_barcode  
Input: .fastq  
Output: .fastq

**Read-Level  
Tax ID  
Input:**  
.fastq

Kraken2  
Input: .fastq/.fasta  
Output: standard/report

**Post  
Processing**

Combined  
Filtered and  
Ranked Output

