seqkit

如果要处理序列,应该首先想到此软件

下载地址:下载

- 1, amplicon
- 2, bam
- 3, common
- 4, concat
- 5, convert
- 6. duplicate
- 7、faidx
- 8, fish
- 9, fq2fa
- 10, fx2tab
- 11, genautocomp
- 12, grep
- 13, head
- 14, help
- 15, locate
- 16, mutate

17, range

18, rename

19, replace

```
./software/seqkit.exe replace -h
replace name/sequence by regular expression.
Note that the replacement supports capture variables.
e.g. $1 represents the text of the first submatch.
ATTENTION: use SINGLE quote NOT double quotes in *nix OS.
Examples: Adding space to all bases.
    seqkit replace -p "(.)" -r '$1 ' -s
Or use the \ escape character.
    seqkit replace -p "(.)" -r "\$1 " -s
more on: http://bioinf.shenwei.me/seqkit/usage/#replace
Special replacement symbols (only for replacing name not sequence):
            Record number, starting from 1
           Corresponding value of the key (captured variable $n) by key-value file,
    {kv}
           n can be specified by flag -I (--key-capt-idx) (default: 1)
Usage:
  seqkit replace [flags]
Flags:
  -s, --by-seq
                             replace seq
 -h, --help
                            help for replace
  -i, --ignore-case
                            ignore case
  -K, --keep-key
                              keep the key as value when no value found for the key (only for sequence name)
                          capture variable index of key (1-based) (default 1)
  -I, --key-capt-idx int
  -m, --key-miss-repl string replacement for key with no corresponding value
  -k, --kv-file string
                          tab-delimited key-value file for replacing key with value when using "{kv}" in -r (--replacement)
     --nr-width int
                              minimum width for {nr} in flag -r/--replacement. e.g., formating "1" to "001" by --nr-width 3 (de
  -p, --pattern string
                             search regular expression
  -r, --replacement string replacement. supporting capture variables. e.g. $1 represents the text of the first submatch. AT
Global Flags:
     --alphabet-guess-seq-length int length of sequence prefix of the first FASTA record based on which seqkit guesses the se
      --id-nchi
                                       FASTA head is NCBI-style, e.g. >gi|110645304|ref|NC_002516.2| Pseud...
                                       regular expression for parsing ID (default "^(\\S+)\\s?")
      --id-regexp string
  -w, --line-width int
                                       line width when outputing FASTA format (0 for no wrap) (default 60)
  -o, --out-file string
                                       out file ("-" for stdout, suffix .gz for gzipped out) (default "-")
      --quiet
                                       be quiet and do not show extra information
  -t, --seq-type string
                                       sequence type (dna|rna|protein|unlimit|auto) (for auto, it automatically detect by the f
  -j, --threads int
                                       number of CPUs. (default value: 1 for single-CPU PC, 2 for others) (default 2)
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20, restart

21, rmdup

- 22, sample
- 23、sana
- 24, seq
- 25、shuffle
- 26, sliding
- 27、sort
- 28, split
- 29、split2
- 30、stats
- 31, subseq
- 32、tab2fx
- 33, translate
- 34、version
- 35、watch