fastx-utils之去除重复序列: uniques

一、fastx-utils uniques介绍

功能描述:

fastx-utils uniques 根据序列去除重复。

命令行接口:

可选参数:

```
-l 字符串 序列标签,默认为 'Uniq';
-m 输出标准错误;
```

二、使用场景实例及其用法

使用场景经典案例:

1.16S扩增子数据分析: 对合并后的PE数据进行去除重复序列,并进行计数;

示例演示:

示例文件: A1.fastq

```
$ zcat A1.fastq.gz | head -n 8
```

@HISEQ:483:HLJ2LBCXY:1:1101:7924:2136

+

<DEG/CEHHIHEHCHECFHICHHHHHDHIICHHIEHCHCEGHHIICH?EEHFHHHIECEE?HE?</pre>

1GHHHHDHHHHHFFGHHHCHHHII?H?HHHEHCHF1CGHC0DEHEHHD<<FEHHHIGHIC??

HHCGHHHHIHH@FFEEHIHDHHCHHIHIHE@GH-G??EDEGEHIHIICHHC?EHH-

KKKGK=KKKKKKKKKKKKKKKKKKHE@@G@CEC6+>=>8.-C@B8-HHIHHACHCBFA.GA?

 $\label{lem:condition} \begin{tabular}{ll} HHEHHFHHHCIHE@CGBAFGIHIHHHCEHHCC, HEHIHHGDFHFHEGCHEEHIH@HFGHGIIHHHHHECEHGIIHEHHCE \\ C/C/DGIHHGCC@HGD00C01GCHCCDE?C1D1GCC?DH=HFHHG@CEDEGIHIHFE=EHEHHHHCHHIHHHG? \\ EHEG@<1 \end{tabular}$

@HISEQ:483:HLJ2LBCXY:1:2108:14400:12517

TGGGGAATATTGGACAATGGGCGCAAGCCTGATCCAGCCATGCCGCGTGGGTGATGAAGGCCCTAGGGTTGTAAAGCCGT
TTCGGCGGGGAAGATAATGACGGTACCCGCAGAAGAAGCCCCGGCTAACTTCGTGCCAGCAGCCGCGGTAATACGAAGGG
GGCTAGCGTTGCTCGGAATTACGGGGGCGTAAAGCGCACGTAGGCGACTCTTTAAGTCGGGGGTGAAATCCTGGAGCTCAA
ACCCAGAACTGCCTTCGATACTGGGGAGCTCGAGTTCGGGAGAGGTGAACTGCGAGTGTAGCGGTGAAATTCGTA
GATATTCGCAAGAACACCAGTGGCGAAGGCGGCTCACTGGCCCGATACTGACGCTGAGGTGCGAAAGCGTGGGCAGCAAA
CAGG

+

运行命令: 去除 A1. fastq 文件中的重复序列, 使用 -1 Uniq 重新命令.

\$ fastx-utils uniques -l Uniq A1.fastq.gz | head -n 6
>Uniq_1

>Uniq_2

TGGGGAATATTGGACAATGGGCGCAAGCCTGATCCAGCCATGCCGCGTGGGTGATGAAGGCCCTAGGGTTGTAAAGCCGT
TTCGGCGGGGAAGATAATGACGGTACCCGCAGAAGAAGCCCCGGGCTAACTTCGTGCCAGCAGCCGCGGTAATACGAAGGG
GGCTAGCGTTGCTCGGAATTACGGGGGCGTAAAGCGCACGTAGGCGACTCTTTAAGTCGGGGGTGAAATCCTGGAGCTCAA
ACCCAGAACTGCCTTCGATACTGGGGAGCTCGAGTTCGGGAGAGGTGAACTGCGAGTGTAGCGGTGAAATTCGTA
GATATTCGCAAGAACACCAGTGGCGAAGGCGGCTCACTGGCCCGATACTGACGCTGAGGTGCGAAAGCGTGGGCAGCAAA
CAGG

>Unia 3

TGGGGAATATTGGACAATGGGCGAAAGCCTGATCCAGCCATGCCGCGTGGATGAAGGAGGCCCTAGGGTTGTAAAGTCCT
TTCGATGGTGAAGATAATGACGGTAACCATACAAGAAGCCCCGGGCTAATTTCGTGCCAGCAGCCGCGGTAATACGAAAGG
GGCTAGCGTTGTTCGGAATTACTGGGCGTAAAGCGCACGTAGGCGGCCGTGTAAGTTGGGGGTGAGATCCCGGGGCTCAA
CCCCGGAACTGCCTCCAAAACTACATAGCTAGAGGATGTGAGAGGACAGTGGAATTCCGAGTGTAGAGGTGAAATTCGTA
GATATTCGGAAGAACACCGGTGGCGAAGGCGACTGTCTGGCACATTTCTGACGCTGAGGTGCAAAAGCGTGGGGAGCAAA
CAGG

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