

The workflow of IterCluster and its evaluation pipeline

**The script used in each step:**

|  |  |  |
| --- | --- | --- |
|  | stLFR data | 10x data |
| Split barcode | 01.split\_barcode\_stlfr.pl | Longranger, 01.split\_10X\_reads\_new.pl |
| QC filter dup & adapter | 02.SOAPfilter\_stlfr.sh | 02.SOAPfilter\_10x.sh |
| Filter N and small barcode | 03.Reads\_filter.pl | 03.Reads\_filter.pl |
| Kmer Analysis | 04.kmer.sh | 04.kmer.sh |
| Alignment | 05.aln\_run.sh | 05.aln\_run.sh |
| Get barcode position | 06.get\_barcode\_position.pl | 06.get\_barcode\_position.pl |
| Build matrix | get\_matrix\_run.sh | get\_matrix\_run.sh |
| IterCluster | IterCluster-MCL.sh | IterCluster-MCL.sh |
| Evaluation | 07.Single\_MclIterCuster\_evaluate.pl | 07.Single\_MclIterCuster\_evaluate.pl |

More detail can be found on IterCluster’s github page.

**The adapter used in SOAPfilter:**

The adapter1 is CTGTCTCTTATACACATCTTAGGAAGACAAGCACTGACGACATGA.

The adapter2 is TCTGCTGAGTCGAGAACGTCTCTGTGAGCCAAGGAGTTGCTCTGG.