**Result of Fastp**

Filtering using Fastp tool gave the below result:

For SRR9873306

Read1 before filtering:

total reads: 703027

total bases: 105454050

Q20 bases: 103266325(97.9254%)

Q30 bases: 102531876(97.229%)

Read2 before filtering:

total reads: 703027

total bases: 105454050

Q20 bases: 101470093(96.2221%)

Q30 bases: 100283844(95.0972%)

Read1 after filtering:

total reads: 700855

total bases: 95820209

Q20 bases: 94413422(98.5318%)

Q30 bases: 93927247(98.0245%)

Read2 aftering filtering:

total reads: 700855

total bases: 95820209

Q20 bases: 93193851(97.2591%)

Q30 bases: 92410096(96.4411%)

Filtering result:

reads passed filter: 1401710

reads failed due to low quality: 4344

reads failed due to too many N: 0

reads failed due to too short: 0

reads with adapter trimmed: 411222

bases trimmed due to adapters: 18617128

Duplication rate: 0.0550692%

Insert size peak (evaluated by paired-end reads): 151

For SRR13342195

Read1 before filtering:

total reads: 1154773

total bases: 150307650

Q20 bases: 138687504(92.2691%)

Q30 bases: 130653325(86.9239%)

Read2 before filtering:

total reads: 1154773

total bases: 164196571

Q20 bases: 146310470(89.1069%)

Q30 bases: 135839839(82.73%)

Read1 after filtering:

total reads: 1088262

total bases: 140452163

Q20 bases: 131283838(93.4723%)

Q30 bases: 124092833(88.3524%)

Read2 aftering filtering:

total reads: 1088262

total bases: 153107516

Q20 bases: 139973922(91.422%)

Q30 bases: 130619164(85.3121%)

Filtering result:

reads passed filter: 2176524

reads failed due to low quality: 132524

reads failed due to too many N: 498

reads failed due to too short: 0

reads with adapter trimmed: 73686

bases trimmed due to adapters: 2886047

Duplication rate: 1.91989%

Insert size peak (evaluated by paired-end reads): 130

For SRR14160921 dataset

Read1 before filtering:

total reads: 1319409

total bases: 181192916

Q20 bases: 167936013(92.6835%)

Q30 bases: 158522177(87.4881%)

Read2 before filtering:

total reads: 1319409

total bases: 181626544

Q20 bases: 167052376(91.9757%)

Q30 bases: 156042190(85.9138%)

Read1 after filtering:

total reads: 1261433

total bases: 172906201

Q20 bases: 162570119(94.0221%)

Q30 bases: 153877591(88.9948%)

Read2 aftering filtering:

total reads: 1261433

total bases: 172810150

Q20 bases: 162056189(93.777%)

Q30 bases: 151935392(87.9204%)

Filtering result:

reads passed filter: 2522866

reads failed due to low quality: 114780

reads failed due to too many N: 1172

reads failed due to too short: 0

reads with adapter trimmed: 25448

bases trimmed due to adapters: 604051

Duplication rate: 0.960108%

Insert size peak (evaluated by paired-end reads): 148

For SRR17859194 dataset

Read1 before filtering:

total reads: 514136

total bases: 140785405

Q20 bases: 110708859(78.6366%)

Q30 bases: 91174362(64.7612%)

Read2 before filtering:

total reads: 514136

total bases: 142309116

Q20 bases: 90040157(63.2708%)

Q30 bases: 67248873(47.2555%)

Read1 after filtering:

total reads: 346612

total bases: 91117955

Q20 bases: 83908227(92.0875%)

Q30 bases: 74252967(81.491%)

Read2 aftering filtering:

total reads: 346612

total bases: 90845308

Q20 bases: 74560985(82.0747%)

Q30 bases: 61345609(67.5275%)

Filtering result:

reads passed filter: 693224

reads failed due to low quality: 335048

reads failed due to too many N: 0

reads failed due to too short: 0

reads with adapter trimmed: 52276

bases trimmed due to adapters: 1876666

Duplication rate: 0.0461828%

Insert size peak (evaluated by paired-end reads): 241

JSON report: fastp.json

HTML report: trmmed\_reads/SRR17859194.fastp.html

For SRR13220452 dataset

Read1 before filtering:

total reads: 760094

total bases: 182448563

Q20 bases: 177977183(97.5492%)

Q30 bases: 175505898(96.1947%)

Read2 before filtering:

total reads: 760094

total bases: 182559044

Q20 bases: 172003674(94.2181%)

Q30 bases: 166675690(91.2996%)

Read1 after filtering:

total reads: 750215

total bases: 180112182

Q20 bases: 176011672(97.7234%)

Q30 bases: 173681889(96.4298%)

Read2 aftering filtering:

total reads: 750215

total bases: 180099178

Q20 bases: 170813543(94.8442%)

Q30 bases: 165876588(92.1029%)

Filtering result:

reads passed filter: 1500430

reads failed due to low quality: 19758

reads failed due to too many N: 0

reads failed due to too short: 0

reads with adapter trimmed: 6988

bases trimmed due to adapters: 140285

Duplication rate: 0.439627%

Insert size peak (evaluated by paired-end reads): 335