

PEAdapterFinder

Generated By Rmarkdown

01/05/2017

Introduction

PEAdapterFinder is stand for Paired-End Adapter Finder. PEAdapterFinder is capable to identify two consensus adapter sequences from two paired-end FASTQ file as input. Both FASTQ file can be in multi-line FASTQ file or 4-line FASTQ file.

- Author
 - Rayan Gan and Farhan Tahir
- Date
 - Jan 2017

Install PEAdapterFinder

1. Download source code from github: <https://github.com/farhanmohdtahir/PEAdapterFinder.git>
(downloaded file will name as PEAdapterFinder-master.zip)
2. Open terminal
3. Go to Downloads directory (or directory which the PEAdapterFinder-master.zip are located)
 - Example:
If Downloads directory is located in path: `/export/home/farhan/Downloads`
`cd /export/home/farhan/Downloads`
4. Unzip the PEAdapterFinder-master.zip file
 - Example:
`unzip PEAdapterFinder-master.zip`
5. After unzip, go to the PEAdapterFinder-master directory
 - Example:
`cd /export/home/farhan/Downloads/PEAdapterFinder-master`
6. Make the PEAdapterFinder program by write the following commands:
`make`
7. Installation complete. You can run PEAdapterFinder as the following tutorial.

Run PEAdapterFinder

1. Open Terminal
2. Write the command to go to the directory that locate the PEAdapterFinder program
 - Example:
If PEAdapterFinder program is located in path: /export/home/farhan/Downloads/PEAdapterFinder-master:
cd /export/home/farhan/Downloads/PEAdapterFinder-master
3. Write the command to execute PEAdapterFinder program
 - Example:
./PEAdapterFinder -f1 file1.fastq -f2 file2.fastq [options]
 - -f1 and -f2 are the REQUIRED option for user to insert 2 paired-end FASTQ file
Make Sure both input FASTQ file are presence in the same directory of PEAdapterFinder Program!

4. Below is the command of the options that can be use:

Option	Description	Flag
-f1	Input File 1. The file must in .fastq OR .fq file format (multi-line OR 4-line FASTQ file). Example: -f1 <i>sample1.fastq</i> OR -f1 <i>sample1.fq</i>	REQUIRED
-f2	Input File 2. The file must in .fastq OR .fq file format (multi-line OR 4-line FASTQ file). Example: -f2 <i>sample2.fastq</i> OR -f2 <i>sample2.fq</i>	REQUIRED
-seq1	Minimum length percentage to get adapter sequence (default = 70, to change use '-seq1=') Example: -seq1=80	OPTIONAL
-perc	Minimum match percentage to get adapter sequence (default = 85, to change use '-perc=') Example: -perc=90	OPTIONAL
-conf	Minimum confidence level of nucleotides (default = 1, to change use '-conf=') Example: -conf=80	OPTIONAL
-debug	Debug level of programme (default = 0, to change use '-debug=' : 0 - only adapter sequences, 1 - nucleotide count and phred score, 2 - dynamic programming matrix and traceback matrix) Example: -debug=1 OR -debug=2	OPTIONAL
- help	To view information about option that can be used	OPTIONAL

5. Wait for the program to complete it's process for the result of adapter sequence found in both file.