

Version 1 ▼

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Installation instructions for RNA-seq analysis using a conda environment V.1

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Works for me

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ABSTRACT

The purpose of this protocol is to define and provide instructions for creating a conda environment for phylogenetic analysis

Installing Miniconda

Open a terminal (Ctrl + Alt + T).

Create a directory called softwares to your HOME directory, switch to it and then download the 64-bit Python 3 Miniconda installer.

Install Miniconda quietly, accepting defaults.

After installation, remove the Miniconda installer from directory.

Set the Miniconda permanent PATH and update conda packages to the latest compatible version.



mkdir \$HOME/softwares

cd \$HOME/softwares

wget https://repo.continuum.io/miniconda/Miniconda3-latest-Linux-x86_64.sh bash Miniconda3-latest-Linux-x86 64.sh -bfp \$HOME/softwares/conda rm Miniconda3-latest-Linux-x86_64.sh

export PATH="\$HOME/softwares/conda/bin:/usr/local/share/rsi/idl/bin:\$PATH" echo 'export

PATH="\$HOME/softwares/conda/bin:/usr/local/share/rsi/idl/bin:\$PATH"" >> \$HOME/.bashrc

conda update -y -n base conda

Creating conda environment

Create a YML file to build a phylogenetic analysis environment called rna-seq.



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cat > rna-seq.yml <<EOF

name: rna-seq channels:

- bioconda

dependencies:

- bedtools
- bioconductor-rdavidwebservice
- bowtie2
- bwa
- cutadapt
- fastqc
- igv
- multiqc
- tophat
- trimmomatic
- samtools
- star
- subread

EOF

 ${\it 3} \quad \text{Create the environment from the phy.yml file} \\$



conda env create -f rna-seq.yml