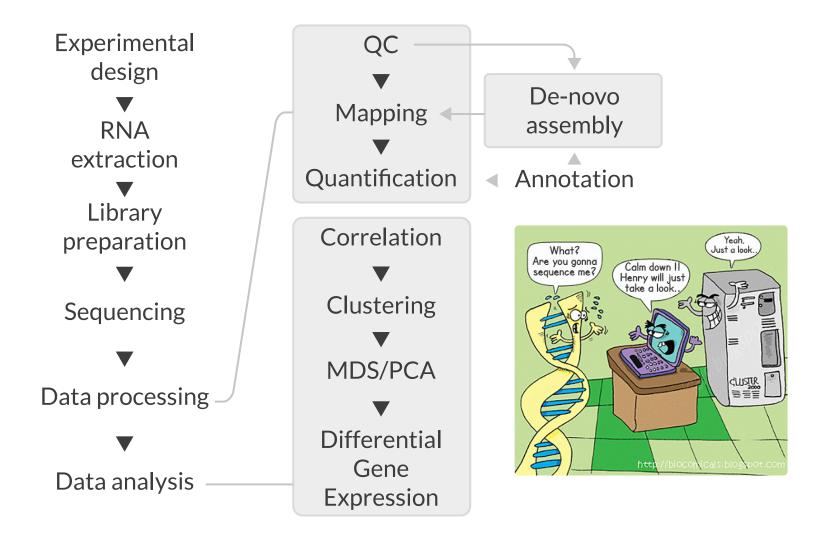


Welcome to RNAseq 2019

- General things before we start
 - WIFI
 - Toilets
 - Fika
 - Uppmax

Two days course



We are going to try to make this course interactive

https://youtu.be/Z9orbxoRofl

And for that we need your help

Presentations

- Your name
- Where you were born
- Where you work
- Favorite animal
- Favorite plant
- Favorite gene (if you have any)

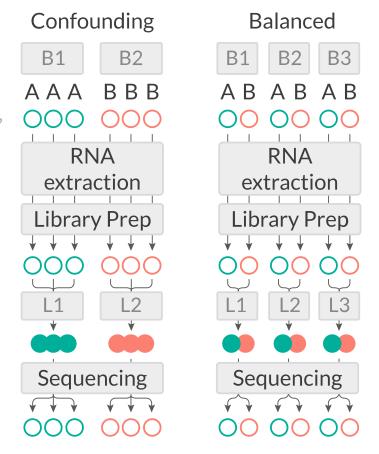
What are the things you need to consider when planning RNA-seq data analysis?



Experimental design

- Balanced design
- Technical replicates not necessary (Marioni et al., 2008)
- Biological replicates: 6 12 (Schurch et al., 2016)
- ENCODE consortium
- Previous publications
- Power analysis

RnaSeqSampleSize (Power analysis), Scotty (Power analysis with cost)



⁹ Busby, Michele A., et al. "Scotty: a web tool for designing RNA-Seq experiments to measure differential gene expression." Bioinformatics 29.5 (2013): 656-657

⁹ Marioni, John C., et al. "RNA-seq: an assessment of technical reproducibility and comparison with gene expression arrays." Genome research (2008)

Schurch, Nicholas J., et al. "How many biological replicates are needed in an RNA-seq experiment and which differential expression tool should you use?." Rna (2016)

Which persons will have the most similar expression pattern



